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FMIPA
UNIVERSITAS
SYIAH KUALA



NEWSLETTER

FMIPA USK

Faculty of Mathematics and Natural Sciences
Universitas Syiah Kuala



STUDENT ACHIEVEMENT NEWSLETTER

#KAMPUSBERDAMPAK

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FMIPA USK NEWSLETTER



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Enhancing Our Faculty's Visibility and Growth

Faculty of Mathematics and Natural Sciences
Universitas Syiah Kuala

As part of its commitment to becoming a leading and globally recognized higher education institution, the Faculty of Mathematics and Natural Sciences (FMIPA) at Universitas Syiah Kuala is consistently developing strategies to enhance the visibility and growth of the faculty. These efforts are directed not only at strengthening academic and research capacity but also at expanding collaborative networks, increasing social contributions, and fostering active engagement in national and international higher education dynamics. Through a structured and forward-looking approach, FMIPA USK is determined to position itself as a center of excellence in education, research, and impactful community engagement.

Strategic Focus Areas for Enhancing Faculty Visibility and Growth:

Strengthening International Standard Research

FMIPA USK actively promotes the production of high quality research through publications in reputable international journals, the development of cross-border research collaborations, and active participation in global scientific conferences and forums.

Expansion of International Partnerships

The faculty proactively establishes strategic collaborations with overseas educational and research institutions through memoranda of understanding (MoUs), joint research initiatives, and the development of collaborative academic programs.

Implementation of the Impactful Campus Concept

To deliver meaningful contributions to society, FMIPA USK integrates principles of sustainability and science based solutions into its education, research, and community service activities at local, national, and international levels.

Enhancement of National and International Community Service Programs

Lecturers and students are encouraged to take part in community engagement initiatives that address real world challenges, focusing on empowering communities and transferring applicable scientific knowledge.



Prof. Dr. Taufik Fuadi Abidin, S.Si., M. Tech.
Dean

Academic Mobility for Students and Faculty

FMIPA USK continuously expands opportunities for both student and faculty exchanges at national and international levels as a means to broaden perspectives, build cultural understanding, and strengthen global academic networks.

Capacity Building and Global Competence Development

Members of the academic community are supported to participate in international training, workshops, and scientific events to enhance professional competencies and build strong international collaborations.



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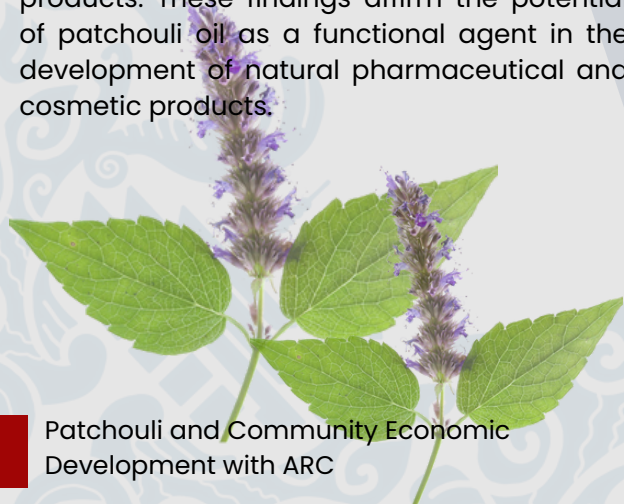


Patchouli and Community Economic Development with ARC

Aceh is known as one of the world's top producers of patchouli oil (*Pogostemon cablin* Benth), a commodity with high economic value, particularly in the cosmetics, perfume, and aromatherapy industries. However, this significant potential has yet to be fully harnessed to improve the welfare of farmers and local entrepreneurs. Recognizing this, the Faculty of Mathematics and Natural Sciences (FMIPA) at Universitas Syiah Kuala, in collaboration with the Atsiri Research Center (ARC), has been actively promoting applied research and community empowerment programs centered on the region's flagship commodities, including patchouli.

At FMIPA USK, one of the lecturers and researchers, Nadia Isnaini, has played a key role in the development of patchouli oil-based products. Her focus includes purification processes, product formulation, and various applications in pharmacy and cosmetics. Among her notable contributions is the use of light fractions of patchouli oil obtained through molecular distillation as active ingredients in topical analgesics, floor cleaners, soaps, and moisturizing creams. By utilizing advanced purification techniques such as vacuum distillation and adsorbent based separation, patchouli oil is fractionated to isolate bioactive components known for their high stability and biological efficacy.

A series of studies has also been conducted to evaluate the physical properties, stability, and antimicrobial as well as anti-inflammatory activities of the formulated products. These findings affirm the potential of patchouli oil as a functional agent in the development of natural pharmaceutical and cosmetic products.



apt. Nadia Isnaini, S.Farm., M.Sc
Pharmacy Lecturer

Beyond research, active involvement has also been demonstrated in community service activities. Training programs on patchouli product formulation have been provided to MSMEs (Micro, Small, and Medium Enterprises) across Aceh. In collaboration with the ARC-PUI Nilam Aceh team and Universitas Syiah Kuala, initiatives have been implemented to convert agricultural waste into value-added products such as dishwashing soap, floor cleaners, and body butter. These efforts not only enhance local technical knowledge but also foster a stronger entrepreneurial ecosystem built upon sustainable natural resources.

In partner villages, training programs have been conducted to improve raw patchouli quality, optimize distillation methods, and introduce basic cosmetic formulation. These efforts empower farmers and MSMEs to enhance product value and competitiveness. Additional support includes product certification, packaging, and digital marketing. By connecting academia, industry, and communities, this initiative highlights how research can drive local innovation and economic self-reliance. The collaboration between FMIPA USK, ARC, and local stakeholders offers a replicable model for sustainable development across other key regional commodities.



USK RANKED 66TH IN THE WORLD FOR QUALITY EDUCATION



Ranking 600 – 800 Best Universities in the World



Times Higher Education
Impact Rankings

"DarahTanyoe" An Innovation by FMIPA USK Students That Won 2nd Place Nationally at ITB Sandbox 2.0

Banda Aceh — One thing that never fails to captivate in the realm of higher education is when students tackle real-world problems with smart, tech-based solutions. This is precisely what a student team from the Faculty of Mathematics and Natural Sciences (FMIPA) at Universitas Syiah Kuala (USK) has demonstrated by winning 2nd place in the national Sandbox 2.0 competition, under the Hack4Health category, organized by the IEEE ITB Student Branch.

The team is composed of five students from different study programs: Glenn Hakim (Informatics) as the team leader, along with his peers Muhammad Bintang Indra Hidayat, Muhammad Habil Aswad, and Ahmad Syah Ramadhan (all from Informatics), and Musliadi from the Statistics program. Fueled by a spirit of collaboration and social responsibility, they developed a platform named **"DarahTanyoe"** an innovation aimed at creating a more efficient, integrated, and responsive blood distribution system.

From Idea to MVP: The Long Journey Toward Innovation

The Sandbox 2.0 competition was far from ordinary. It was held in two stages: a bi-weekly online session spanning more than a month, and a final offline Hackday session at GSG Salman, Bandung Institute of Technology (ITB). The competition challenged participants to think critically and build real solutions from scratch.

The bi-weekly session, held from February 11 to March 22, 2025, was divided into three phases—idea development, UI design, and MVP creation. Throughout the process, the USK team received focused mentoring from experts in technology and public health.



Throughout each phase, the "DarahTanyoe" platform continued to evolve. It was designed to tackle long-standing issues in blood donation, such as the difficulty of finding donors in critical times and the uneven distribution of blood across regions. "DarahTanyoe" emerged as a digital ecosystem connecting donors, recipients, hospitals, and key partners like the Indonesian Red Cross (PMI) in real time.

Pride for the faculty and university

Dean of FMIPA USK, Prof. Dr. Taufik Fuadi Abidin, S.Si., M.Tech, warmly welcomed the achievement. He stated that this success is a source of pride not only for FMIPA USK, but also for the whole university. It is something we are proud of. "This accomplishment proves that our students are capable of competing nationally. What matters is how we nurture and prepare them well. Every student has the potential to succeed if they are given the right space and support," said Prof. Taufik. He also emphasized the need to push the campus innovation ecosystem so that more young talents can emerge and confidently showcase their ideas on national and international stages.

Distanbun Aceh Supports Academic Collaboration with FMIPA-USK

The Department of Agriculture and Plantation (Distanbun) of Aceh has expressed a strong commitment to supporting higher education programs, particularly through student internship initiatives and broader academic collaboration. In a cordial meeting between Distanbun and the leadership of the Faculty of Mathematics and Natural Sciences, Universitas Syiah Kuala (FMIPA-USK), several key points were agreed upon, laying the groundwork for synergistic partnerships between academia and the agricultural sector.

Head of Distanbun, **Ir. Cut Huzaimah, MP**, accompanied by the department's secretary and several officials, conveyed their readiness to host student internships from various academic programs. She emphasized that Distanbun manages numerous technical implementation units (UPTDs) that serve as ideal learning environments for students, offering real-world experience in the agriculture and plantation sectors. "We fully support educational initiatives, and our units are open for students to learn and contribute directly," she said.

Representing FMIPA-USK, Dean **Prof. Dr. Taufik Fuadi Abidin, S.Si, M.Tech.**, attended the meeting along with Vice Dean for Student Affairs, Alumni, and Partnerships **Dr. Ir. Wira Dharma, S.Si, M.Si, M.P.**, and Head of the Department of Biology, **Prof. Dr. Lenni Fitri, S.Si, M.P.** The Dean expressed his optimism that this collaboration would involve not only the Department of Biology but also other relevant programs within FMIPA, such as Statistics and Informatics, which offer valuable expertise in big data processing, agricultural modeling, and digital transformation.



The Department of Biology at FMIPA-USK has notable expertise in plant tissue culture, with several researchers capable of supporting innovation in sustainable agriculture and regional commodity development. This collaboration presents opportunities for joint research, technology transfer, field-based community service, and curriculum development, in alignment with global goals for sustainable development.

As a key outcome of the meeting, both parties signed a Cooperation Agreement (PKS) to support joint programs such as seminars, internships, curriculum development, and research. This collaboration also aligns with the MBKM program and contributes to several SDGs, including Quality Education and Innovation.

Distanbun expressed its continued openness to working with academic institutions through long-term, legally supported partnerships. This initiative aims to boost human resource development, foster agricultural innovation, and support Aceh's sustainable growth.

The event marked a crucial step in strengthening ties between government and academia to ensure education remains relevant and impactful.

Rector of USK Honors Achievements of Outstanding Students and FMIPA Team in National and International Competitions

Students from the Faculty of Mathematics and Natural Sciences (FMIPA), Universitas Syiah Kuala (USK), once again made remarkable achievements at both the national and international levels. One of the FMIPA students, Putri Salsabila Rinaldi, successfully secured a prestigious internship position abroad at the Korean Advanced Institute of Science and Technology (KAIST) in South Korea. KAIST is one of the leading technology universities in Asia and a top destination for talented students from around the world to develop their research and innovation capacities. Putri's success demonstrates that USK students possess global competitiveness and expertise.

Additionally, a team of students from the Department of Informatics and Statistics at FMIPA USK also won Second Place in the national Sandbox Hackathon (Hack4Health 2.0) competition, an innovation technology contest in the health sector, which saw participation from many renowned universities in Indonesia. The team consisted of five students: Glenn Hakim (Informatics – Team Leader), Muhammad Bintang Indra Hidayat (Informatics), Muhammad Habil Aswad (Informatics), Ahmad Syah Ramadhan (Informatics), and Musliadi (Statistics). They succeeded in developing an innovation that addresses real and systemic issues related to blood donation through a platform called DarahTanyoe.

DarahTanyoe provides an innovative ecosystem that connects donors, recipients, hospitals, and the Indonesian Red Cross (PMI). This tech-based innovation helps overcome challenges in blood distribution and availability, making it easier to find suitable donors.



This achievement received direct attention from the Rector of Universitas Syiah Kuala, Prof. Dr. Ir. Marwan, who extended his congratulations and expressed pride in all the students involved. During a meeting with the outstanding students, the Rector was accompanied by the Dean of FMIPA USK, Prof. Dr. Taufik Fuadi Abidin, S.Si., M.Tech., the Vice Dean for Student Affairs, Alumni, and Collaboration, as well as faculty advisors from the Department of Informatics and Statistics at FMIPA. Rector Marwan emphasized that this achievement is proof of the quality of education and guidance provided at FMIPA, as well as the students' enthusiasm to grow and contribute continuously.

The Dean, Prof. Taufik, also expressed his appreciation and affirmed the faculty's commitment to creating an academic ecosystem that supports students in achieving excellence both domestically and internationally. According to him, this success demonstrates that FMIPA USK students are capable of addressing contemporary challenges and playing an active role in creating technology-based solutions for the benefit of society.

FMIPA USK Conducted a Workshop on Preparing SAR Documents for ASIIN International Accreditation

The Faculty of Mathematics and Natural Sciences (FMIPA) at Universitas Syiah Kuala (USK) successfully held a full day workshop titled "Workshop on Preparing SAR Documents for ASIIN International Accreditation" on Wednesday, May 7, 2025. This initiative is part of the faculty's ongoing commitment to internationalizing its academic programs and enhancing educational quality in line with global standards.

ASIIN (Akkreditierungsagentur für Studiengänge der Ingenieurwissenschaften, der Informatik, der Naturwissenschaften und der Mathematik) is a Germany based accreditation agency recognized for evaluating and certifying degree programs in engineering, informatics, natural sciences, and mathematics. Gaining ASIIN accreditation is a significant milestone for any higher education institution, as it reflects international recognition, promotes academic excellence, and opens doors for global academic and industry collaboration

The event began with participant registration at 8:00 AM, followed by a welcoming session hosted by Lydia Septa Desiyana, S.Farm., M.Si.Apt. In her opening speech, organizing committee chair Nurhasanah, S.Si., M.Si. emphasized the relevance of international accreditation in today's higher education landscape and the need for FMIPA USK to align its academic quality with international benchmarks

Dean of FMIPA USK, Prof. Dr. Taufik Fuadi Abidin, S.Si., M.Tech., in his keynote remarks, expressed strong support for the accreditation initiative and underscored the importance of collaboration among faculty members in ensuring all programs meet the rigorous criteria set by ASIIN.



The first session featured Prof. Dr. Ir. Suhendrayatna, M.Eng, who presented "Quality Assurance of International Accreditation". He elaborated on the policies and strategic considerations for selecting appropriate international accreditation agencies and highlighted best practices from leading institutions. The session, moderated by Lydia Septa Desiyana, invited active engagement from participants through a discussion segment.

The second session started at 10:10 AM with Dr. Endah Retnowati's presentation on ASIIN accreditation and SAR preparation, moderated by Prof. Dr. Suhartono. She outlined the structure and key elements of the SAR.

After lunch, Dr. Dewi Yunita led a session on SAR formatting and guidelines, providing practical steps to meet ASIIN standards. Closing the workshop at 4:00 PM, Vice Dean I, Dr. Nasrullah, emphasized its role in supporting the faculty to move toward international accreditation and global recognition



ACCREDITATION STATUS OF MASTER PROGRAMS

**ADMISSION
OPEN**

**MASTER OF
CHEMISTRY**
EXCELLENT

**MASTER OF
MATHEMATICS**
VERY GOOD

**MASTER OF
PHYSICS**
EXCELLENT

**MASTER OF
BIOLOGY**
EXCELLENT

**MASTER OF
STATISTICS**
**ON ACCREDITATION
PROCESS**

**MASTER OF
ARTIFICIAL
INTELLIGENCE**
VERY GOOD

BERAPI and USK's Master's in Statistics Forge Resilient Socio-Sciencepreneurial Civil Servants



Banda Aceh – May 21, 2025. With renewed spirit and passion, the BERAPI program returned once again—this time in collaboration with the Master's Program in Statistics, Faculty of Mathematics and Natural Sciences (FMIPA), Universitas Syiah Kuala (USK), in a meaningful partnership carrying the theme “Forging Civil Servants with a Socio-Sciencepreneurial Spirit.”

Held at the Teuku Umar Hall and broadcast live via Zoom, the event brought together civil servants from the Central Bureau of Statistics (BPS) across Aceh. Their participation marked a collective move toward nurturing a culture of lifelong learning and strengthening the transformation of civil servants into adaptive agents of change in today's fast-evolving landscape.

This session featured a keynote address by Dr. Munawar, M.App.Stats, a lecturer from the Master's Program in Statistics at FMIPA USK. In his inspiring talk, Dr. Munawar encouraged the participants to consider furthering their studies, particularly in the field of statistics. This discipline has become increasingly vital in our current data-driven era.

The event showcased a powerful synergy between academia and government institutions, working hand in hand to shape civil servants who are not only technically proficient but also visionary, solution-oriented, and innovative.

Carrying the resonant message “If passion has sparked, I will go wherever it leads into workspaces or classrooms,” BERAPI proves to be more than just a learning platform. It is a shared space for growth, fostering empowered, critical-thinking civil servants ready to serve the nation with greater meaning and impact.

“When passion drives you, workspaces and classrooms are no longer separate worlds—they empower each other,” Dr. Munawar emphasized. He underscored the importance of cultivating a socio-sciencepreneur mindset: the ability to blend social sensitivity, scientific capability, and entrepreneurial vision to craft impactful public policies.



Empowering Innovation: USK Teams Triumph at Global Competitions in Korea and Malaysia



Banda Aceh — Students from Universitas Syiah Kuala (USK) have once again brought pride to the nation on the international stage. Two teams from the Faculty of Mathematics and Natural Sciences (FMIPA) have earned prestigious accolades in world-class competitions held in South Korea and Malaysia.

At the Korea International Women's Invention Exposition (KIWIE) 2025, a team of three female USK students proudly won two prestigious awards: the Silver Prize and the Special Prize. This competition, which gathers women innovators from around the world, highlights creativity and originality in the fields of science and technology. Their achievement is a testament to the significant contributions of Indonesian women in global innovation.

Meanwhile, another FMIPA USK team achieved an equally remarkable feat at the 3rd International Youth Summit (IYS) 2025, held in Malaysia on May 24–25, 2025. They secured Second Place (Silver Medal) after presenting a scientific project that stood out in terms of innovation, implementation, and social impact.

The Dean of FMIPA USK expressed great pride and appreciation for this outstanding achievement. "This success is the result of hard work, collaborative spirit, and the dedication of our students, who continue to strive for excellence at the international level," he stated.

These global achievements by USK teams are expected to inspire other students to continue innovating and contributing to education and research, both nationally and internationally.

Voices of Excellence: FMIPA USK Students Shine in Poetry and Language Competitions

Great work!



Banda Aceh — Students from the Faculty of Mathematics and Natural Sciences (FMIPA), Universitas Syiah Kuala, have once again made the university proud by achieving remarkable accomplishments at both national and international levels in the fields of arts and literature.

Utari Mulya Agustin, a talented student from FMIPA USK, won 3rd place in a poetry writing competition held in commemoration of World Migratory Bird Day 2025. This competition served as a vital platform for raising environmental awareness through literary expression, and Utari successfully conveyed her concern for nature through a touching and meaningful poem.

Meanwhile, **Cut Dhinie Decita**, also a student of FMIPA USK, demonstrated her excellence in communication and language by securing 2nd place in the National English Competition 12 (NEC XII), organized by the Faculty of Language and Arts (FBS), Universitas Negeri Medan. The competition brought together participants from various universities across Indonesia, and Dhinie stood out with her outstanding English language skills.

These achievements further prove that FMIPA USK students not only excel in science and technology but also possess exceptional talent in arts, literature, and communication. The faculty expresses its highest appreciation for the dedication and perseverance demonstrated by these students.

"This achievement is evidence that FMIPA is not only committed to academic excellence but also encourages holistic development and competitiveness in various fields," stated one of the faculty leaders.

THE STUDENTS OF FMIPA USK ACHIEVED OUTSTANDING REGIONAL SUCCESS



The Faculty of Mathematics and Natural Sciences (FMIPA) at Universitas Syiah Kuala continues to shine with pride as two of its students secured remarkable achievements in prestigious regional events.

Syifa An Najwa was awarded 1st Place in the Scientific Writing on the Qur'an (KTIQ) – Female Category at the MTQ (Musabaqah Tilawatil Qur'an) selection for Pidie Jaya Regency. Her accomplishment demonstrates a strong intellectual ability in integrating scientific analysis with deep, thoughtful reflections on Qur'anic values.

Meanwhile, **Muhammad Fazil** brought further honor to FMIPA by winning the Talented Agam (Male Youth Ambassador) Category of North Aceh 2025. Fazil showcased exceptional talent, character, and charisma—representing the ideal image of a smart, well-mannered, and competitive young Acehnese man.

The Dean of FMIPA expressed high appreciation for the achievements of both students. "These accomplishments prove that FMIPA students excel not only academically but also actively participate and succeed in non-academic competitions," he stated

FMIPA USK is committed to nurturing holistic student development—academically, personally, and professionally. It is hoped that these successes will inspire other students to continue striving and achieving similar milestones.

USK Wins Gold Medal at WYIE 2025 in Malaysia



In mid-2025, Universitas Syiah Kuala (USK) once again achieved an outstanding accomplishment on the international stage. At the World Young Inventors Exhibition (WYIE) 2025, held at the Kuala Lumpur Convention Centre (KLCC) in Malaysia, a team of USK students won a Gold Medal in the category of Innovative Technology in Energy and Materials.

WYIE is part of the International Invention, Innovation & Technology Exhibition (ITEX), a prestigious international competition and exhibition that brings together young inventors from around the world. This event took place from May 28–31, 2025, and served as a strategic platform for the young generation to showcase their innovative ideas and products to the global audience.

New Innovation for Detecting Authentic Patchouli Oil

USK secured the gold medal through an innovative project entitled “DCO (Densitymeter Patchouli Oil)”, a device for detecting the authenticity of patchouli oil based on density (mass per unit volume) measurement. This innovative idea emerged from the concerns over the increasing cases of adulteration of patchouli oil, a leading commodity of Aceh province, which can harm both farmers and the national essential oil industry. The advantage of this device is that it can quickly, practically, and accurately distinguish between pure patchouli oil and adulterated ones that have been blended with other substances such as palm oil or kerosene. The product was invented by Dek Rina, a student from the Physics Department, Faculty of Mathematics and Natural Sciences (FMIPA) USK, under the supervision of Physics lecturers, Dr. Malahayati and Dr. M. Syukri Surbakti. They provided advice and guidance from the early stages of developing the concepts until designing a prototype in the Physics laboratory, and to the final presentation phase at KLCC, Malaysia.

Working Principle of the Device

The device operates based on the principle of density, which considers the ratio of mass to volume of a substance. Each type of oil has a different density. For example, pure patchouli oil has a specific density that is different from that of an adulterated one. This device uses sensors to measure mass and volume in order to calculate the density of the patchouli oil being tested. The calculation results are automatically displayed on a dashboard connected to the internet, allowing real-time data access

Future Development

Density is one of many parameters that can be used to determine the authenticity of patchouli oil for more accurate results. However, additional data from other parameters, such as viscosity and chemical composition, are required. The DCO device will be enhanced by incorporating these parameters to improve its accuracy. These additional parameters will be integrated into the DCO device, enabling more precise results in verifying the authenticity of patchouli oil.

FMIPA Debate Competition 2025: A Platform to Sharpen Students' Reasoning and Argumentation Skills



Banda Aceh – The Faculty of Mathematics and Natural Sciences (FMIPA) at Universitas Syiah Kuala successfully held the FMIPA Debate Competition 2025 as a platform to develop students' critical thinking and public speaking skills. The event took place on [event date], held in the Natural Journal Room and the Faculty Senate Room.

The day began at 08.00 AM with participant registration conducted by the student committee, followed by the official opening led by the MC, the singing of the Indonesian national anthem, and a speech by Dr. Ir. Wira Dharma, S.Si., M.Si., M.P., who officially opened the event. In his remarks, he emphasized the importance of debate as a learning medium for students to build character that is critical, communicative, and solution-oriented.

After a group photo session, the debates commenced at 08.55 AM, moderated by a designated debate moderator. The competition was divided into two categories: English-language debates held in the Natural Journal Room and Indonesian-language debates held in the Faculty Senate Room. Each category consisted of several rounds conducted in parallel, following a structured schedule and rules.

Each team had the opportunity to present their arguments and respond to opposing views in a competitive yet respectful and sportsmanlike atmosphere. The debate sessions continued until 12.05 PM, followed by a lunch and break session (ISHOMA) until 2.00 PM.

In the afternoon, the panel of judges calculated scores from all debate rounds to determine the top-performing teams. The announcement of winners took place at 4.00 PM, led by the MC, and the event concluded officially at 4.20 PM.

Through this competition, FMIPA reaffirms its commitment to nurturing students who are not only strong in science and technology but also equipped with soft skills such as critical thinking, collaboration, and effective communication qualities essential in today's global era