



i3L

Indonesia
International
Institute for
Life Sciences

Indonesia International Institute
for Life Sciences

RECTOR'S ANNUAL REPORT

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Profile

Indonesia International Institute for Life Sciences (i3L) is a premium life sciences higher education and research institute located in Jakarta, Indonesia. Presently, i3L offers eight undergraduate programs under the i3L School of Life Science and i3L School of Business. The i3L School of Life Sciences offers undergraduate programs in Biomedicine, Bioinformatics, Biotechnology, Food Science and Nutrition, Food Technology, and Pharmacy. The i3L School of Business offers an undergraduate program in Bioenterpreneurship and International Business Management as well as a graduate Master's program in Bio Management.

Vision

To be a leading and globally connected interdisciplinary institution that impacts society through science and innovation.

Missions

1. To deliver an inter-, multi-, and transdisciplinary education in life sciences at an international level, as well as to support the development of our students' scientific and entrepreneurship thinking in accordance to their disciplines.
2. To conduct collaborative research and development activities in life sciences and business with other higher education institutions, the business sector, and the government.
3. To develop innovations in life sciences and implement to improve Indonesia's quality of life.
4. To maintain a continued collaboration with the government and both local and international higher education institutions in order to implement the Tridharma activities.

Values

1. Grit
2. Role-Model
3. Integrity

To realize its vision, i3L strives to harness national resources to accelerate Indonesia's competitiveness in the global landscape. With its top-quality faculty, state-of-the-art facilities, and global collaborations with academics, industries, communities, and governments, i3L is dedicated to offering a distinctive, interdisciplinary, and integrative learning environment aimed at cultivating a new generation of leaders and entrepreneurial scientists.

i3L's Highlight

i3L has achieved remarkable milestones, cementing its status as a prominent institution in the field of life sciences. The dedication and commitment of the i3L community have resulted in significant accomplishments across various domains. This encompasses the institute's study program accreditation, the faculty's research and community service activities, along with the student's academic and non-academic competitions.

Study Programs in i3L have Obtained Accreditation from Lembaga Akreditasi Mandiri

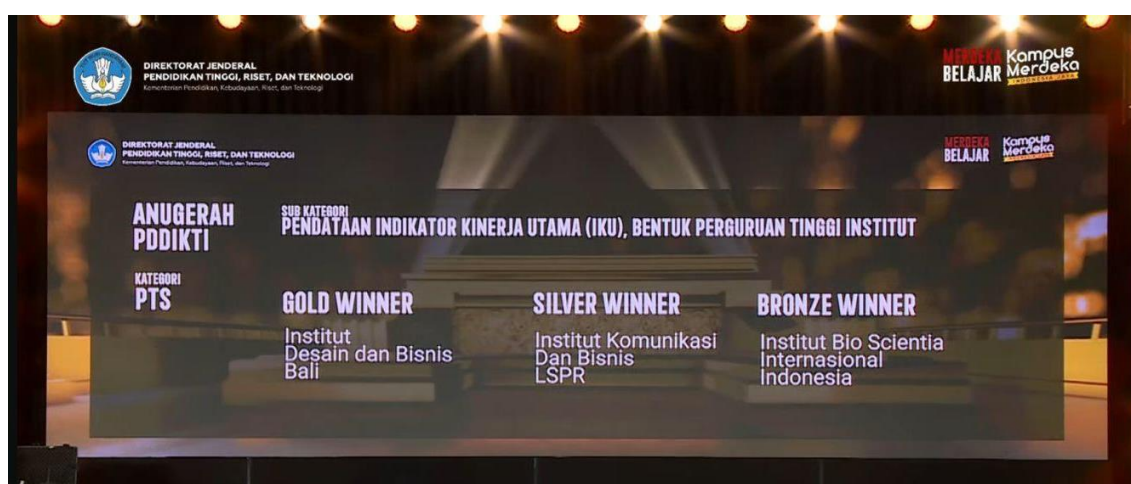
In recent years, all of i3L's undergraduate study programs have gained accreditation. Most of these accreditations are certified by Lembaga Akreditasi Mandiri (LAM) and recognized by the Indonesian government. To be certified, the programs have to meet rigorous academic requirements. This ensures that the students will receive a comprehensive and industry-relevant education.

i3L is committed to providing a high-quality education. With that being said, our Pharmacy Bachelor's program has obtained "Baik Sekali" accreditation from LAM Perguruan Tinggi Kesehatan (LAM-PTKes). The certification can be viewed through the decision letter (0603/LAM-PTKes/Akr/Sar/VIII/2023) by LAM-PTKes. In addition to the programs in the i3L School of Life Science, our International Business Management program in the i3L School of Business was also accredited as "Baik Sekali" by the LAM Ekonomi, Manajemen, Bisnis, dan Akutansi (LAMEMBA). Similarly, this certification can be viewed through the decision letter (913/DE/A.5/AR.10/XII/2023) published by LAMEMBA.

i3L Received an Award at the “Malam Penganugerahan Diktiristek 2023”

The Direktorat Jenderal Pendidikan Tinggi, Riset, dan Teknologi (Ditjen Diktiristek) organized the annual “Malam Penganugerahan Diktiristek 2023” on Wednesday, 13th of December, 2023. This event was intended to give appreciation to higher education institutions that focus on the field of higher education, research, and technology that supports the program and policy created by the Ditjen Diktiristek.

They gave awards to various institutions across Indonesia (state and private universities), higher education service institutions, media, and partners of stakeholders. On this occasion, i3L won the “Bronze Winner” award for the “Perguruan Tinggi Swasta”; under the subcategory of “Pendataan Indikator Kinerja Utama, Bentuk Perguruan Tinggi Institut”.

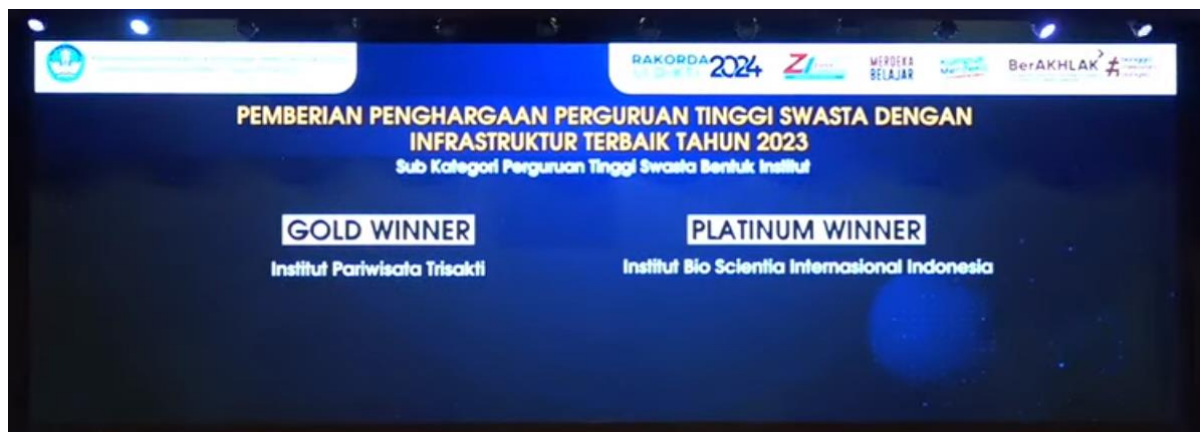


i3L Receives Awards at the “Rapat Koordinasi Daerah (Rakorda) 2024”

The Lembaga Layanan Pendidikan Tinggi (LLDikti) for higher education institutions located in wilayah III held the “Rapat Koordinasi Daerah (Rakorda)” annually. The objective of this event was to consistently elevate the quality of education and allow LLDikti to collaborate with higher education institutions through the “Merdeka Belajar Kampus Merdeka” program. This program ensures the graduates from these institutions were creative and innovative.

This year’s Rakorda theme was “Transformasi Perguruan Tinggi Menuju Rekognisi Global dalam Implementasi Permendikbudristek No.53 Tahun 2023”. At this event, LLDikti gave awards to universities with the best performance in 2023 as a form

of appreciation. During this event, i3L was awarded two Platinum Winner awards under the category of private institutes; “Perguruan Tinggi Swasta dengan Infrastruktur Terbaik” and “Perguruan Tinggi Swasta dengan Kontribusi Sustainable Development Goals (SDGs) Terbaik”.



i3L Presented with Awards in the “Ajang PKM Award 2024”

To nurture students to become creative, innovative, and cooperative while cultivating intellectual diversity, the Direktorat Pembelajaran dan Kemahasiswaan Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi (Kemdikbud-Ristek) established a program entitled “Program Kreativitas Mahasiswa (PKM)”. The objective of this program was to improve academic and/or professional skills by implementing, developing, and disseminating science, technology, art, as well as the Indonesian culture. This program allows propitious projects to receive funding. To be selected for funding, online evaluations were conducted from July to August 2024. This year, the Directorate has approved funding for a total of 3,520 PKM project proposals.

On Monday, 19th of August 2024, at the height of the event, awards were given by the Kemdikbud-Ristek. The event took place at the Universitas Pembangunan Nasional Veteran Jakarta where i3L received awards in two prestigious categories; “Perguruan Tinggi Penerima Pendanaan Terbanyak pada PKM Tahun 2024” and “Perguruan Terproduktif pada PKM Tahun 2024”.



Research Grants Awarded to i3L Lecturers

We proudly announce that several of our faculty members have been awarded prestigious national and international grants for their research. Katherine S.T., Ph.D. and her team along with Pramesti Istiandari S.T., M.Eng., Ph.D and her team have each received funding from the Indonesia Toray Science Foundation. Putu Virgina Partha D. S.Si., M.Si., Ph.D. was awarded an “Alexander von Humboldt Foundation” grant. In addition to that, Marsia Gustianada S.Si., Ph.D. and her team received a grant from the Southeast Asia - Europe Joint Funding Scheme for Research and Innovation. Additionally, Rosita Widjojo, S.E., M.B.A., Ph.D. received a grant from COMFOCUS, which is a collaboration project across Europe aimed at integrating the field of food consumer science. These achievements highlight our faculty's significant contributions in their respective fields.

i3L

INTERNATIONAL GRANTS

Marsia Gustiananda	Putu Virgina Partha D.	Katherine	Pramesti Istiandari
Member David Agustriawan Sita Laksmi Andarini Juliane Walz Jaturong Sewatanon	Research High-Density Cultivation of a Novel Glycerol-Utilizing <i>S. cerevisiae</i> Strain for Recombinant Protein Production with Phytase as a Model Protein	Member Desak Putu Arieska	Member Dina Hermawaty
Research Characterization of T-cell Immunity to SARS-CoV-2 in the South East Asian and European Population (3rd Year)		Research Development of Red Fruit Oil Co-crystal with Different Sugar Substitute as A Potential Healthier Food Colorant in Aqueous Food System	Research Transcriptomic Analysis of Medicinal Legume <i>Abrus precatorius</i> Treated with Methyl jasmonate to Reveal the Biosynthetic Genes of Abrusoside as a Potent Natural Sweetener and Therapeutic Agent
Grant SOUTHEAST ASIA-EUROPE JOINT FUNDING SCHEME FOR RESEARCH AND INNOVATION	Grant Alexander von HUMBOLDT STIFTUNG	Grant ITSF	Grant ITSF

i3L Lecturer, apt. Pietradewi Hartrianti, M.Farm., Ph.D. Won an Award from L'oreal-UNESCO for Women in Science

apt. Pietradewi Hartrianti, M.Farm., Ph.D. has won the “National Fellowship Award” from L'oreal-UNESCO For Women in Science. This award is given to female researchers who dedicate their careers to developing scientific innovations, contributing to sustainable development, and the advancement of society. Her research entails bio-printing, a technology that prints biological tissues that can be used for various applications, such as drug screening. Her work focuses on developing methods and materials to print 3D cancerous tissues using keratin from human hair. These tissues will then be used to test for cancer drugs, further enhancing the drug testing accuracy while being cost-effective and sustainable. Her efforts in modifying materials for bio-printing are intended to improve the efficiency of developing more efficacious cancer treatments. This is in hopes of providing better solutions to the grave challenges posed by cancer.



i3L Lecturer, Dina Hermawaty, S.Si., M. Si., Ph.D, and Her Team Received an Award at the “International Conference and Workshop on Biotechnology 2024”

The Konsorsium Biologi Indonesia (KBI) and the Center for Biotechnology at Universitas Gadjah Mada (UGM) organized “The International Conference and Workshop on Biotechnology 2024”. This event was held from July 3-5, 2024, at the Eastparc Hotel in Yogyakarta. During this event, Dina Hermawaty, S.Si., M.Si., Ph.D. and representatives from the School of Life Sciences and Technology of Institut Teknologi Bandung (ITB) received the prestigious “Best Presenter” award. Their presentation, "Dynamics of Global DNA Methylation and Gene Expression in Banana Fruit Ripening," has captivated the audience and highlighted significant advancements in the agricultural biotechnology sector.



Australia National University Selects i3L Students for their “Future Research Talent Program”

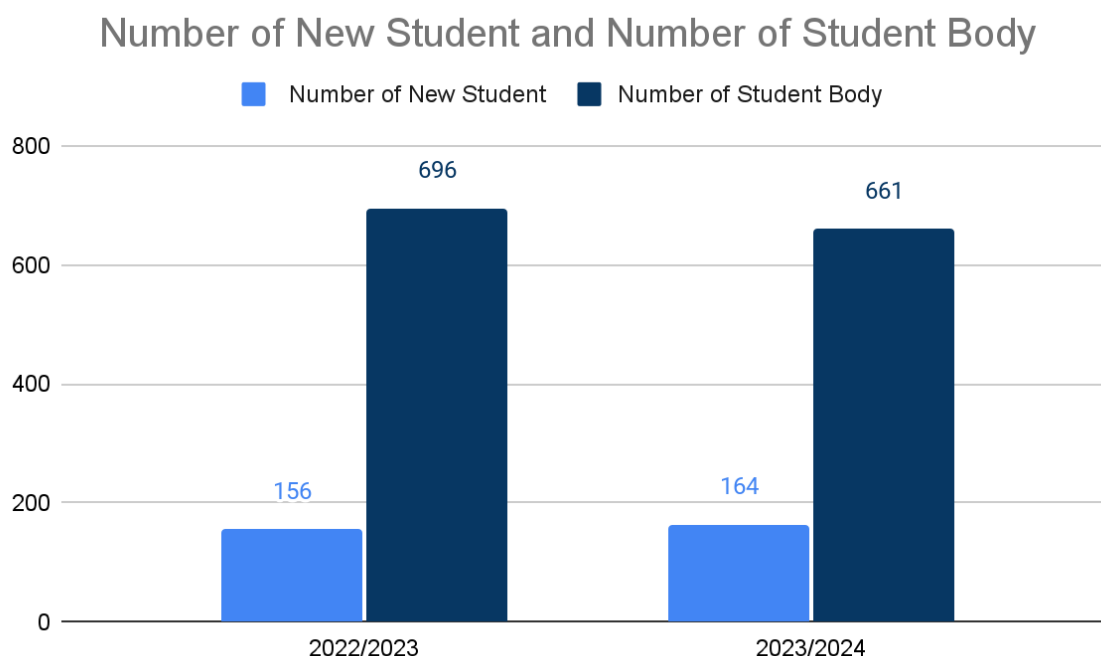
We are delighted to share with you a significant accomplishment within the i3L community; three of our exceptional students, Josia Shemuel (Bioinformatics 2021), Felicia Putri Liyuwardi (Biotechnology 2020), and Kathy Ivana (Biomedicine 2021) have won the “Future Research Talent” award from Australia National University’s (ANU). The program was established to allow these students to pursue their research interests and growth; supporting them as future professional leaders. This program selects outstanding Indonesian students in the fields of Science, Technology, Engineering, Mathematics, and Medicine. Only a handful number of students received this award and we are proud that three of our students are among them.

This achievement demonstrates the caliber of talent that i3L fosters and international recognition of the student’s academic abilities and commitment to scientific research.



Student

Deciding which higher education institution to attend after high school can be tough. Despite the many possible decisions made by these students, we are delighted that i3L has still been selected by many. i3L proudly welcomed a significant number of new students for the 2023/2024 academic year; continuing its trend of steady enrollment growth over the past four academic years. The chart below shows the number of new students and the number of student body in the 2022/2023 and 2023/2024 academic years:

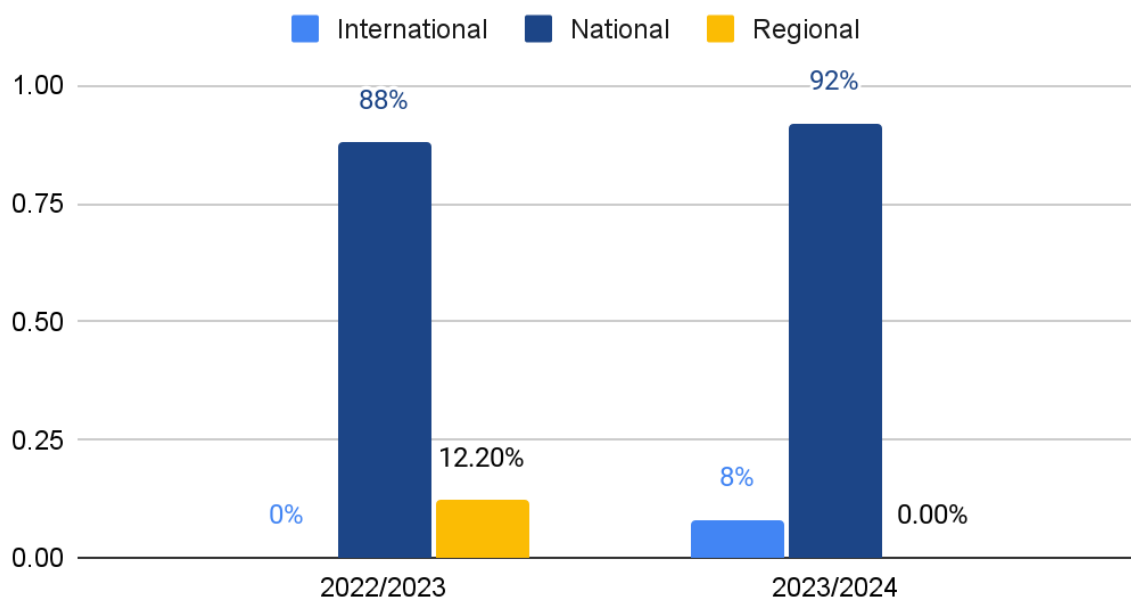


i3L experienced a stable influx of new students, reflecting the institution's growing reputation and appeal across various regions. Most enrolled students hailed from prominent cities such as Jakarta and DI Yogyakarta. We also harbor students from various parts of Indonesia, such as Java and Sulawesi. This diverse geographical distribution highlights i3L's ability to attract talented individuals from different parts of Indonesia. Furthermore, i3L's commitment to internationalization is apparent in the enrollment of students from various nationalities, underscoring its global reach and appeal. Over the past four academic years, i3L has consistently attracted a diverse student body, fostering a rich multicultural learning environment that enhances cross-cultural understanding and collaboration.

In the recent three academic years, i3L students have showcased exceptional academic and non-academic achievements, leaving an indelible mark on both the regional and national stages of competitions.

The student's academic achievements in the different leagues can be summarised in the chart below:

Student's Academic Achievements in the Last 3 Years



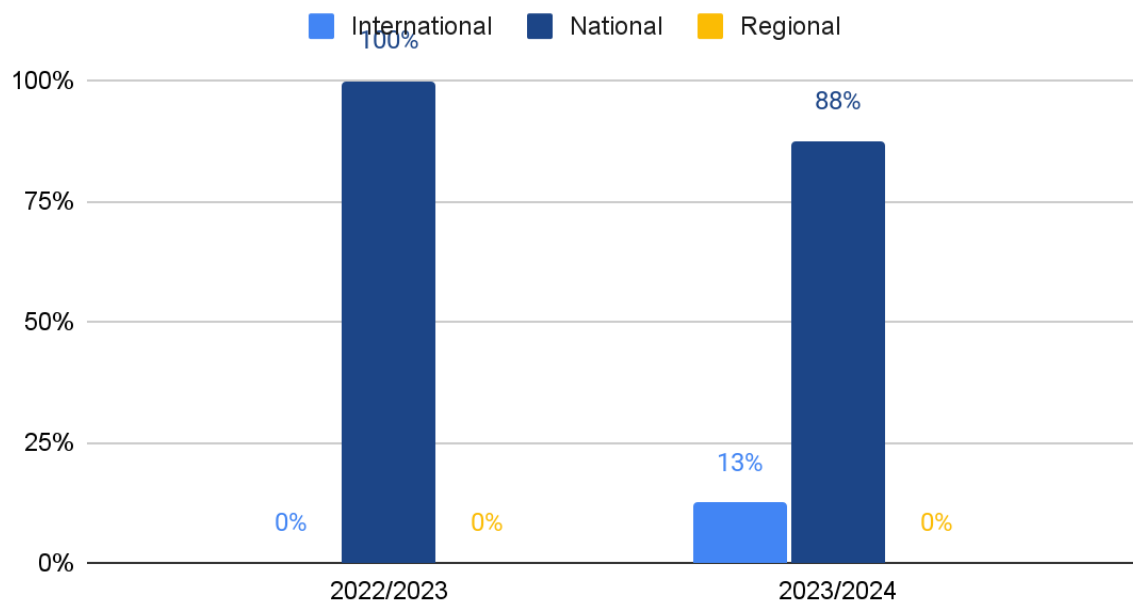
This academic year, the students of i3L engaged in several international and national competitions. Among the many remarkable achievements our students have accomplished; Alvinsyah Ramdani Pradipta Hadi, Albert Ridwan, Harish Hakaman, Amelia Halim, and Celine Gozal (Biotechnology, 2022 cohort) have made a noteworthy achievement of winning third place in the “Business Plan Competition” at the “COMSNETS Workshop 2023”. The “COMSNETS Workshop” is a tech business forum that was held from the 8th to the 19th of November 2023 in Four Points by Sheraton, Bali.

Aside from outstanding academic achievements, the i3L student also has an exceptional non-academic achievement. Muhammad Bagus Darmawan (IBM-2021) was the First Winner of “Kejuaraan National (Kejurnas) Pencak Silat Himpunan Seni Silat Indonesia (HIMSSI) GP ke-3 Open 2024” held from 6 to 8 January 2024 in Musi, Banyuasin. Similarly, Kevin Kris Asikin (IBM 2023) is the Second Winner of the

“Indonesia Wing Chun Competition 2023”, held on the 10th to 12th of November 2023 at Universitas Islam Negeri, Walisongo, Semarang.

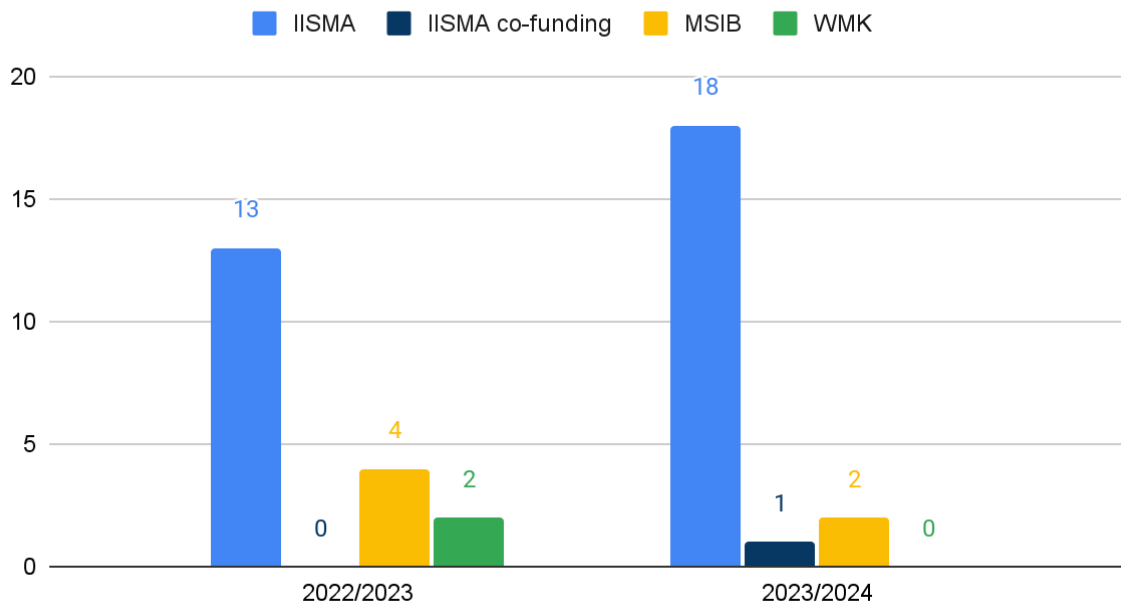
The chart below illustrates the various non-academic achievements.

Student's Non Academic Achievement in the Last 3 Years



i3L students also participated in the “Merdeka Belajar – Kampus Merdeka” (MBKM) program. The government created programs such as the Indonesian International Student Mobility Awards (IISMA), Magang dan Studi Independen Bersertifikat (MSIB), and Wirausaha Merdeka (WMK). The chart below illustrates the percentage of students joining the various MBKM programs.

Students Joining the Various MBKM programs



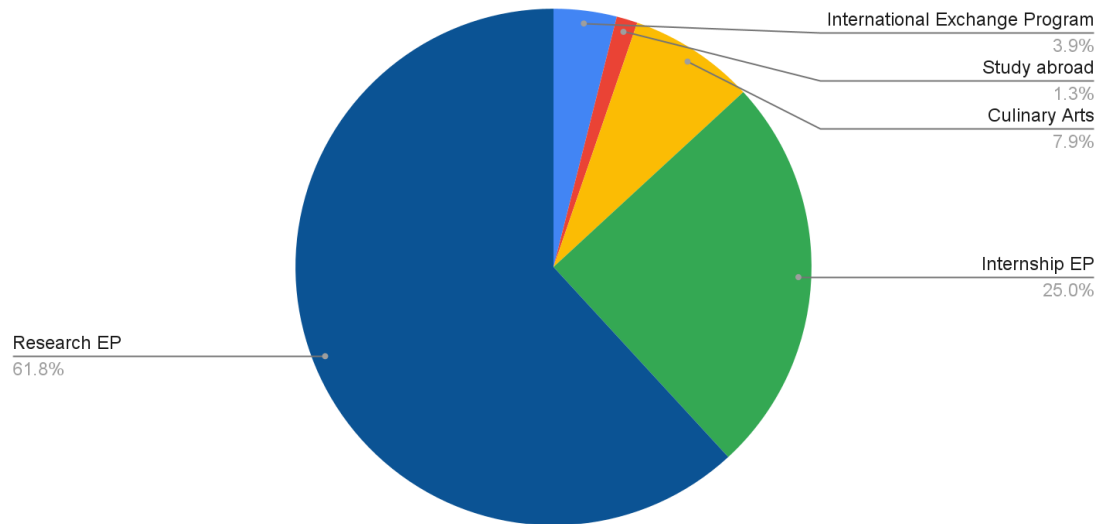
Along with the MBKM program, i3L established several flagship programs such as the Culinary arts, Curiosus, International Study Experience, Research Enrichment Program (EP), and Internship EP.

The international study experience comprises of the global exchange program and the study abroad program. As the name suggests, this program allows the students to learn in a foreign country. They will still be able to obtain their education and experience new culture and settings. The exchange activities were conducted at international universities such as Hokkaido University and Institut Sup'Biotech de France. Students who are interested in research or industrial internships went to different companies and institutions inside Indonesia or overseas under EP.

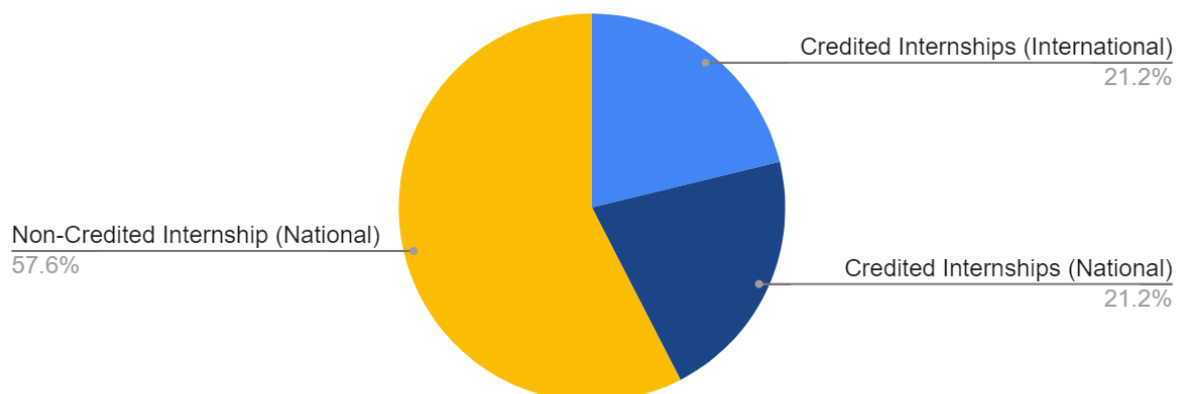
In this academic year, i3L students ventured to various universities such as the Australian National University in Australia, the University of Vienna in Austria, and UCSI University in Malaysia, to undertake the research EP. The students are also involved in the internship EP; most of the students had internships in prominent Indonesian companies such as PT. Garudafood Putra Putri Jaya Tbk and PT. Sinar Sosro.

There was a total of 76 students participating in the programs established by i3L. 51 of those students had their programs abroad and the remaining nationally. The

pie chart below reflects the percentage of students attending the various i3L flagship programs.



Aside from the Internship EP program, i3L also instilled other internships. A total of 33 students are involved in credited and non-credited internships. Our students are accepted to intern in various countries such as Singapore at the National University of Singapore, the United Kingdom at the Queen's University of Belfast, etc. On a national level, the students are accepted to intern at Badan Pengawasan Obat dan Makanan, Mochtar Riady Institute for Nanotechnology (MRIN), etc. The pie chart reflects the percentage of students undertaking credited and non-credited internships.

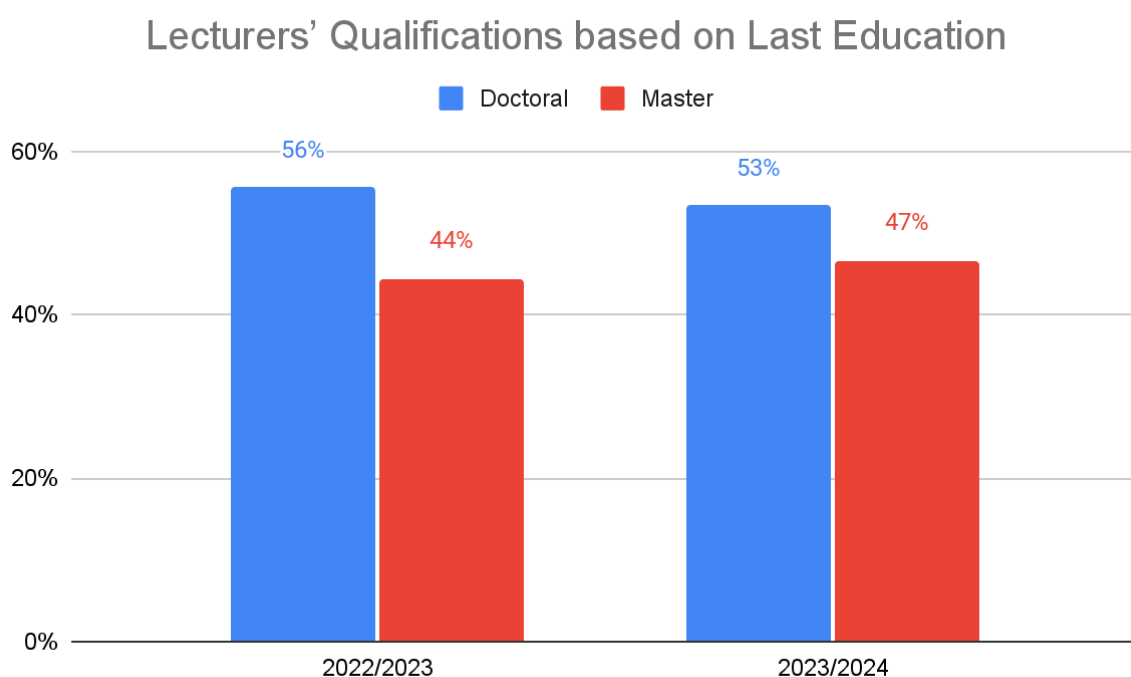


Aside from internships, i3L collaborated with Dundee University and Deakin University to enable a double degree program for i3L students. Currently, five i3L

students are enrolled in the i3L double degree program. Additionally, 4 students have completed their thesis abroad programs at esteemed institutions such as Queen's University Belfast in the United Kingdom and Soonchunhyang University in South Korea.

Lecturer

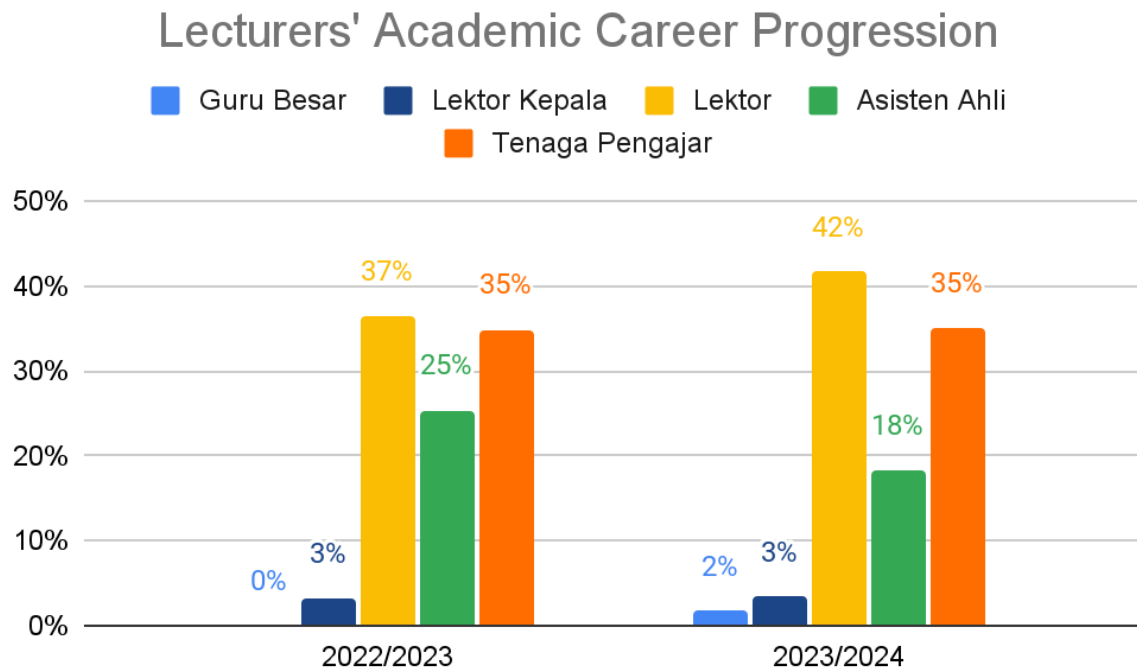
i3L's lecturers have obtained advanced degrees from reputable universities domestically and internationally, reflecting their commitment to continuous learning and academic excellence. Moreover, i3L emphasized the progression of lecturers' academic careers, providing support and opportunities for professional development and research. The graph below illustrates the percentage of the lecturers' qualifications based on their last education in the 2022/2023 and 2023/2024 academic years:



Most of i3L lecturer's last education is dominated by doctoral degrees. Furthermore, it is essential that i3L's lecturers have technical skills, exceptional English language skills, soft skills, and organizational experience.

In Indonesia, the number of universities continues to increase annually. This leads to an increasing demand for qualified and competent lecturers. However, there are challenges in finding suitable candidates for these positions. This includes the limited talent pool that needs to meet qualifications standards and an individual that fits the needs of each college in implementing the "Tri dharma" of higher education as a whole.

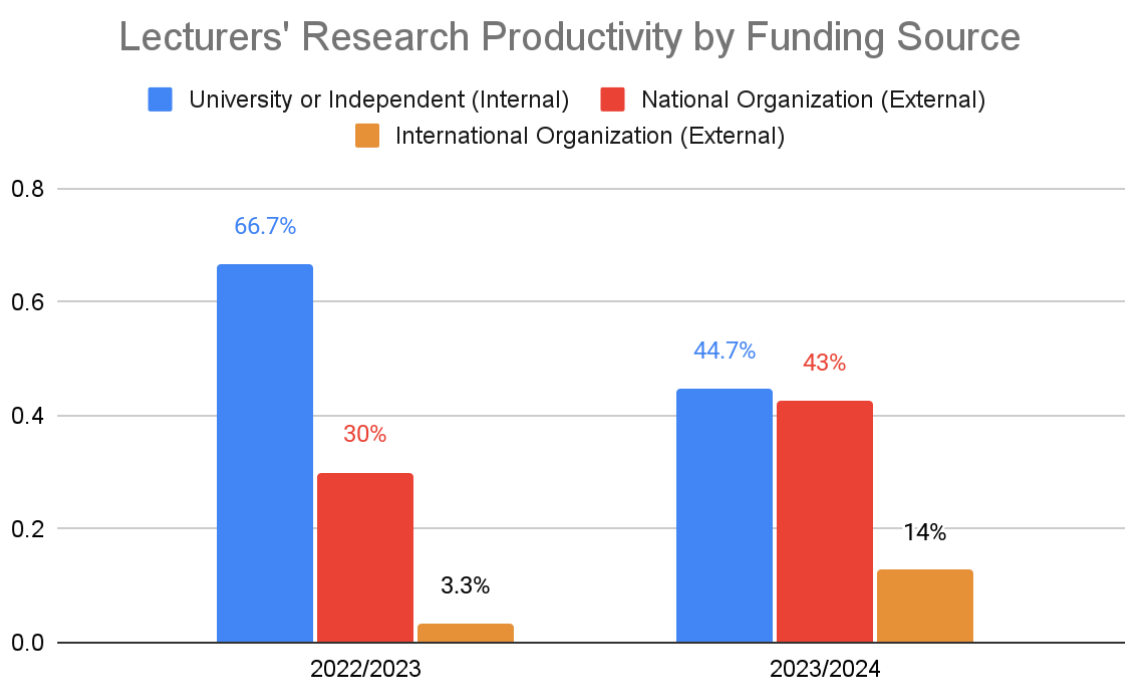
The chart below shows the percentage of the Jenjang Jabatan Akademik (lecturers' academic career progression) in the 2022/2023 and 2023/2024 academic years:



i3L has achieved a milestone with the career progression of Prof. rer. nat. Arli Aditya Parikesit, S.Si., M.Si., by becoming the first faculty member to be awarded the title of Professor by the Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi (Kemdikbud-Ristek). His accomplishments in bioinformatics allowed Prof. Arli to receive this prestigious recognition in January 2024.

Research and Community Service

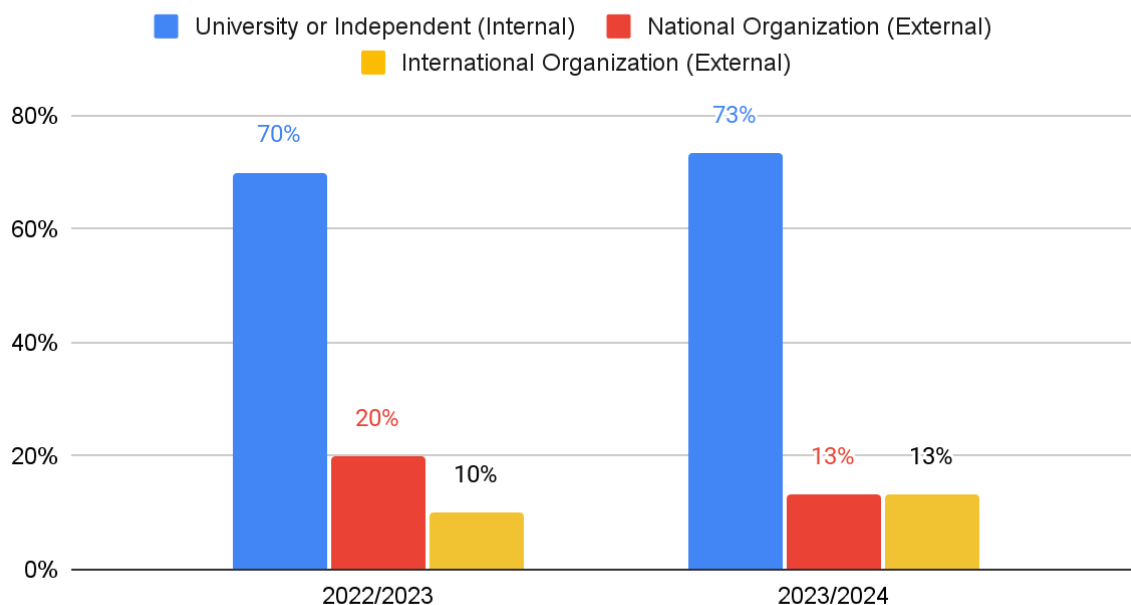
i3L demonstrated a strong commitment to prioritize research output as a key focus area. Recognizing the crucial role of research in advancing knowledge and driving innovation, i3L has dedicated significant resources and support to foster a vibrant research environment. The chart below is a percentage of the lecturers' research productivity based on the Funding Sources in the 2022/2023 and 2023/2024 academic years:



As mentioned in the output section of this article, I3L has participated in various international joint initiatives during the academic year 2023-2024. In the academic year 2022/2023, there was a total of 30 activities, this number activity by 17 in 2023/2024. The faculty's research projects have been funded by prestigious international organizations, such as the Southeast Asia - Europe Joint Funding Scheme for Research and Innovation, the Alexander von Humboldt Foundation, the Indonesia Toray Science Foundation, and COMFOCUS. Additionally, our faculty members have secured external national funding for their research projects from the Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi (Kemdikbud-Ristek) and the National Research and Innovation Agency (BRIN).

The chart below demonstrates the productivity of i3L lecturers' community service segregated by funding sources in the 2022/2023 and 2023/2024 academic years:

Lecturers' Community Service Productivity by Funding Source

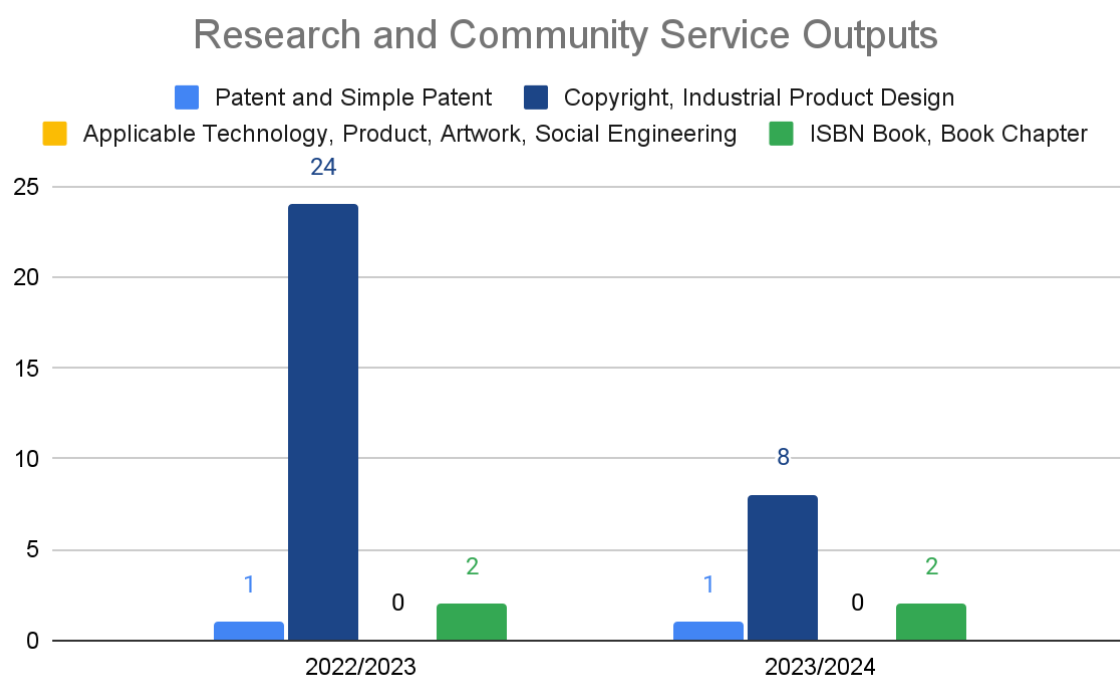


i3L engages in community service initiatives that receive funding from various organisations, companies, and LLDikti. In the 2022/2023 academic year, i3L has received a total of 10 funding. In the 2023/2024 academic year, the funding has multiplied by 1.5 times. These projects are facilitated by i3L lecturers who possess expertise in the fields of food technology, biotechnology, biomanufacturing, and pharmaceutical industries.

In addition to that, i3L collaborated with Vitamin Angels, a non-profit organization that focuses on the health of pregnant women, infants, and children. This project looks over the “Maternal, Infant, and Young Child Feeding Nutrition” program in Indonesia.

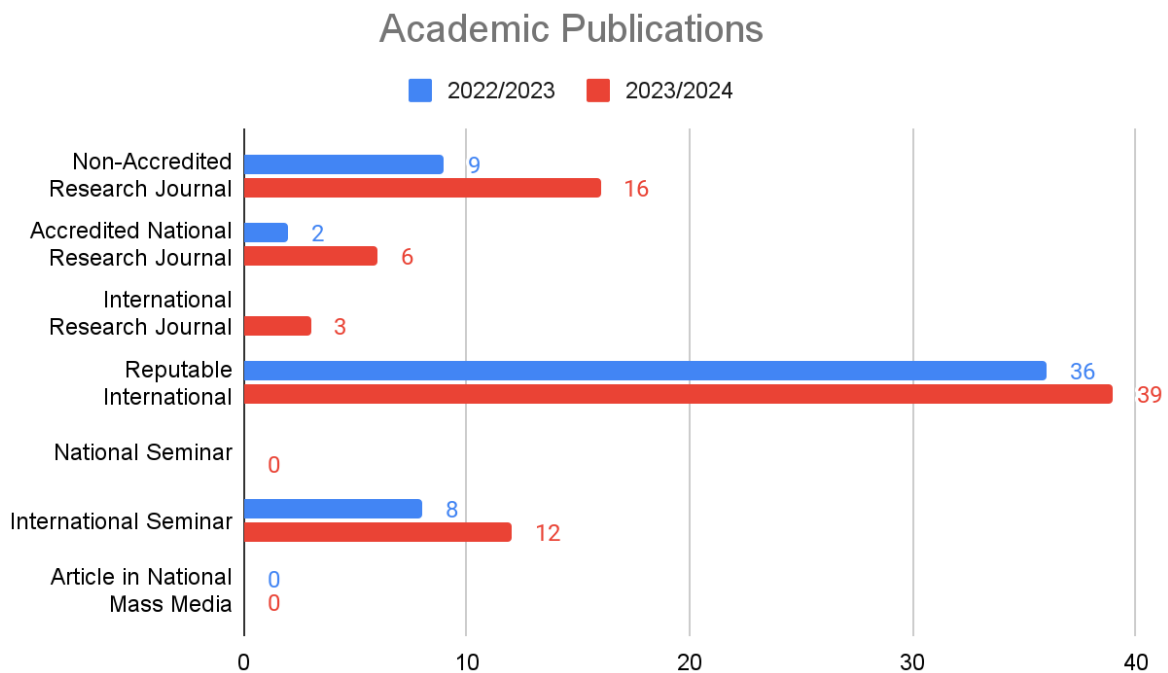
Outputs

As mentioned before, i3L focused on research and community service outputs; particularly on patent copyrights and academic publications. The institution actively supported and encouraged its faculty and students to engage in innovative research projects with promising commercial value and societal impact. By prioritizing patent copyrights and academic publications, i3L has reinforced its commitment to research excellence, innovation, and knowledge dissemination; further solidifying its position as a leader in life sciences and business. The chart below illustrates the number of research and community service output in the 2022/2023 and 2023/2024 Academic Years:



i3L has contributed to a range of research outputs in the academic year 2024/2025, including a patent to produce a low-sodium *kecap* and 8 new copyright and industrial product designs. During this academic year, 2 books with an ISBN code were made. They are titled “Antiviral Strategies in the Treatment of Human and Animal Viral Infections” published by IntechOpen and “A Closer Look at Cancer Biomarkers” published by Nova Science Publishers.

Aside from published books, we also publish academic publications. The chart below is the number of academic publications in the 2022/2023 and 2023/2024 academic years:

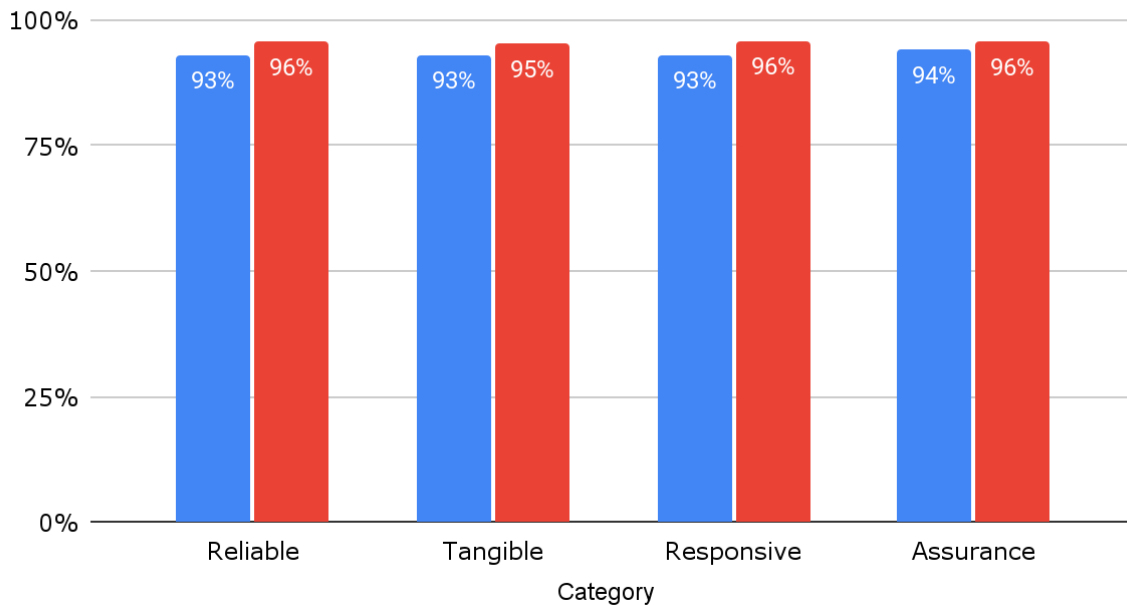


As depicted in the chart above, there has been a notable increase in most categories as compared to the outputs from the academic year 2022/2023. There has been an increase in the number of publications in non-accredited research journals, accredited national journals, international research journals, and reputable international journals. There was also a 1.5 times increase in international seminars from the academic year 2022/2024.

Satisfaction

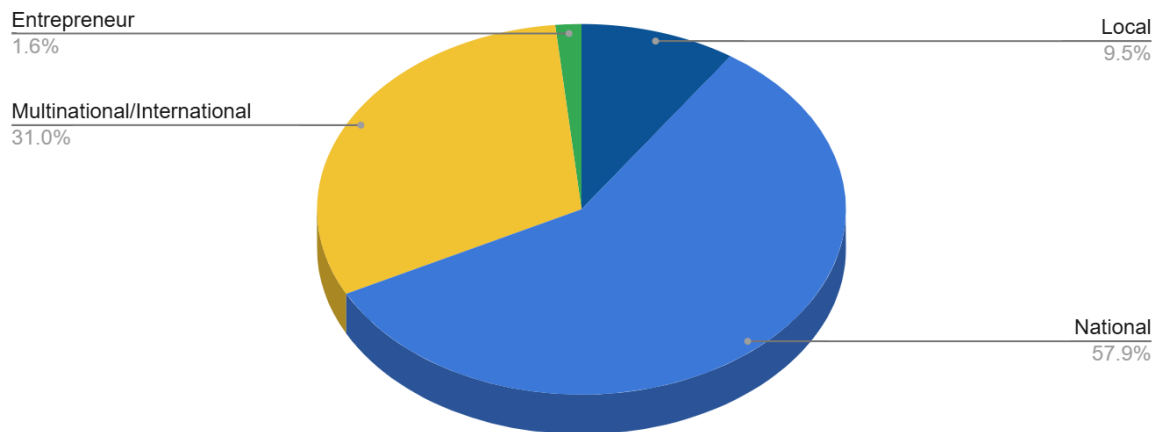
A satisfaction survey was sent out by the quality assurance department of i3L to students. The survey contains questions regarding the correlation to the institute's vision & mission, reliability, tangibility, responsiveness, and assurance. Overall, most students are satisfied with the services provided by the departments. Each category of the survey scored above 90%, which exceeded the minimum target of 80%.

Satisfaction Survey Score



The alumni tracer study is a survey sent to the alumni of i3L. This survey covers the data of the 2022 graduates. 91.27% of our alumni have obtained a job within the first 6 months after their graduation. The remaining have obtained their job within less than a year. Most of them landed a job in a national company, 31% of them are working in a multinational company, and the remaining 11.1% are either entrepreneurs or work in a local company.

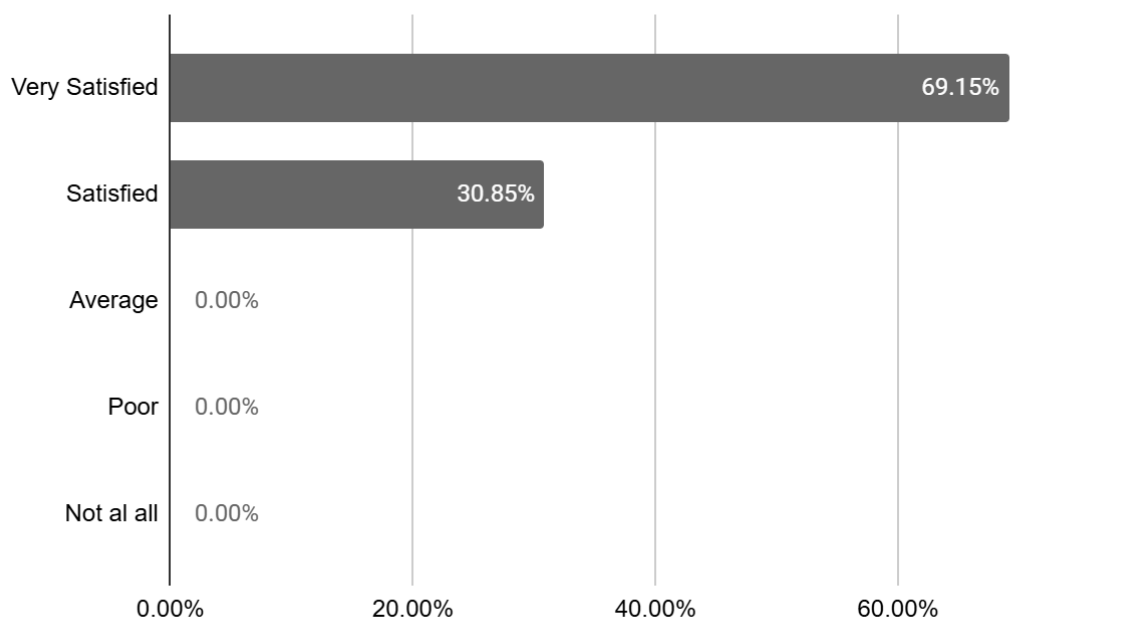
Workplace Level



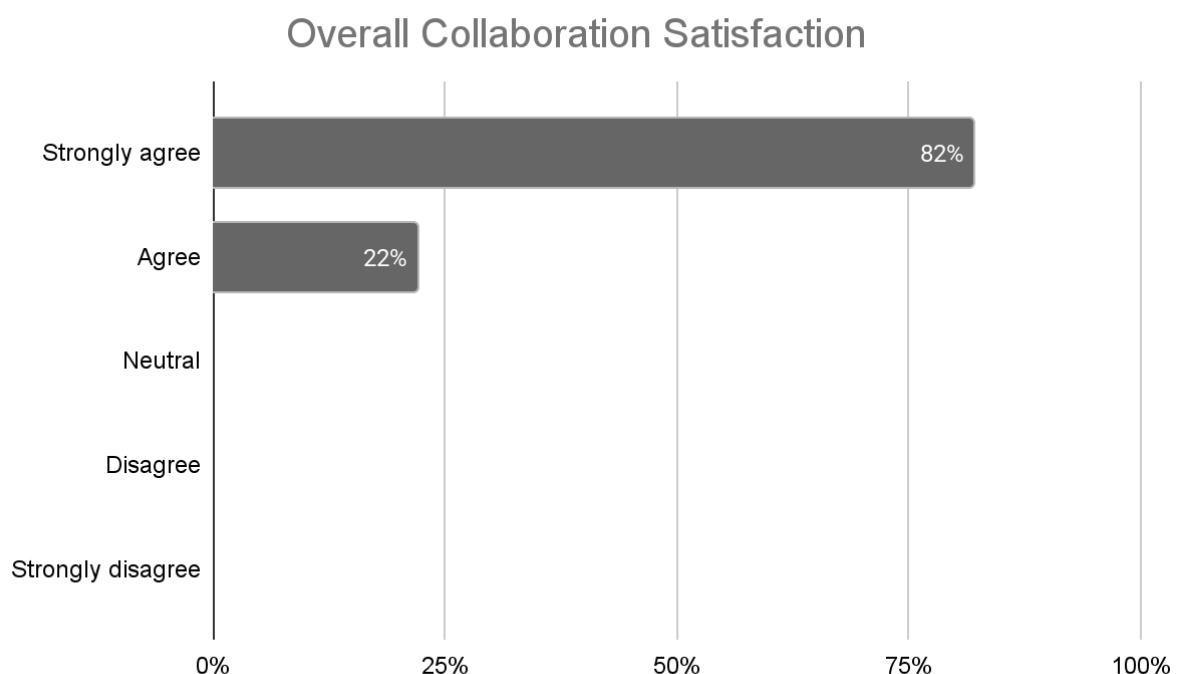
Through this survey, students also identified that the job they had was relevant to the courses they had studied in i3L. 71.43% of the respondents answered that they felt that the courses they had studied were very closely relevant to their studies, 23.02% felt that it was closely related, and the remaining felt that the studies were close enough.

In addition to the alumni, a satisfaction survey was also sent to the supervisors of these graduates. In general, they were satisfied with the duties given to our graduates.

Overall Satisfaction



In the academic year 2023/2024, i3L has collaborated with partners from various fields. We have sent students to our partner universities and companies for internships, student exchanges, and to complete their theses. There are also collaborations with companies for internal competitions and seminars. After the implementation of these collaborative projects, the partners were sent a survey for evaluation. The survey evaluates the overall satisfaction, the implementation of the collaboration, and the partner's willingness to continue the partnership. Out of the 46 surveys returned, 38 respondents strongly agreed that they are satisfied with the overall collaboration.



The partners are also generally satisfied with the implementation of the collaboration, with 89% of respondents agreeing with the statement and the remaining strongly agreed. 97% of the partners have shown a strong willingness to continue their partnership with us, and the remaining agreed to continue collaborating.

