

SDGs Report

2024



UNIVERSITAS
PADJADJARAN



SDGs Report Universitas Padjadjaran 2024

Authors:

Adhi Susatyo, S.T, M.T.

Azahra Kartika, S.Kom.



Foreword

Rector of Universitas Padjadjaran



Since the Sustainable Development Goals (SDGs) were first released at the UN General Assembly in September 2015, Universitas Padjadjaran has been determined to become an active actor in their implementation from 2016 to 2030. This commitment is reflected in the establishment of the Unpad SDGs Center in April 2016 as one of the Centers of Excellence, which continues to play a strategic role as a think tank for SDGs implementation in Indonesia, contributing through research, policy recommendations, and active facilitation in national and international SDGs collaborations.

Universitas Padjadjaran is also the first university in Indonesia to integrate SDGs learning into its curriculum for first year students through the SDGs course. The implementation of SDGs has therefore become an inseparable part of Universitas Padjadjaran's academic and non academic activities through its Tri Dharma of Higher Education. Moreover, SDG principles are embedded in the university's governance system. On the one hand, the SDGs bring benefits to Universitas Padjadjaran through the four pillar scheme (Social, Economic, Environmental, and Legal and Governance) that underpins our institutional framework.

On the other hand, Universitas Padjadjaran continues to act as a strategic partner to the government, private sector, and other stakeholders in supporting SDG implementation at local, national, and global levels. As evidence of our ongoing commitment to sustainable development, we proudly present the **Sustainable Development Goals Report 2024**. This Report serves as a reference for communicating Universitas Padjadjaran's environmental, social, and governance (ESG) performance and its sustainable impacts to stakeholders. Beyond reporting progress, this document also aims to provide insights and feedback for enhancing institutional governance and ensuring transparency regarding the challenges, risks, and opportunities we face in advancing sustainability.

We extend our sincere appreciation to the team that prepared this Report and to all parties who contributed to its completion. We hope that UNPAD stakeholders and the wider community will gain valuable insights from this Report. For Universitas Padjadjaran, may the **SDGs Report 2024** continue to serve as a bridge for strengthening our commitment to sustainable, inclusive, and globally impactful university governance.

Table of Contents

	SDG 01 NO POVERTY	06
12	SDG 02 ZERO HUNGER	
	SDG 03 GOOD HEALTH AND WELL-BEING	20
26	SDG 04 QUALITY EDUCATION	
	SDG 05 GENDER EQUALITY	34
40	SDG 06 CLEAN WATER AND SANITATION	
	SDG 07 AFFORDABLE AND CLEAN ENERGY	46
54	SDG 08 DECENT WORK AND ECONOMIC GROWTH	
	SDG 09 INDUSTRY, INNOVATION AND INFRASTRUCTURE	60



	SDG 10 REDUCED INEQUALITY	68
76	SUSTAINABLE CITIES AND COMMUNITIES	SDG 11 
	SDG 12 RESPONSIBLE CONSUMPTION AND PRODUCTION	84
92	CLIMATE ACTION	SDG 13 
	SDG 14 LIFE BELOW WATER	100
108	LIFE ON LAND	SDG 15 
	SDG 16 PEACE, JUSTICE AND STRONG INSTITUTIONS	116
112	PARTNERSHIP FOR THE GOALS	SDG 17 



SDG 01

No Poverty

1 NO
POVERTY



Research by Number (2020-2024)



Publication

111



Citation Impact

0.85



Citation Count

557



SDG 01 No Poverty



Implementation of The Smart Indonesia Card (KIP) Program for College at UNPAD

Universitas Padjadjaran continues to strengthen its commitment to supporting education for students from underprivileged families, in alignment with SDG 1: No Poverty. Through the Kulawargi Mahasiswa Bidikmisi (Kabim) Unpad, the Directorate of Student and Alumni Affairs held an event titled “KIPTalks for Recipients of the Indonesia Smart College Card (KIP-K) 2024”. The event aimed to provide information and guidance for new KIP-K recipients to help them understand their rights, obligations, and available support during their studies. The event was attended by representatives from the Ministry of Education’s Puslapdik, Unpad KIP-K mentors, and several student awardees. In her remarks, Ofiar Murwanti, Secretary of the Directorate of Student and Alumni Affairs, emphasized Unpad’s commitment to continuously assisting KIP-K students throughout their academic journey to promote equal access to quality education and social inclusion.

Unpad consistently works to improve the quality of support for KIP-K students by evaluating challenges in the program’s implementation. The KIP-K program is a government priority that provides opportunities for high-achieving students from low-income families to access higher education and build a better future. KIP-K serves as a means to break the cycle of poverty by empowering students to develop their skills, pursue better careers, and achieve financial independence after graduation. Through this initiative, Unpad contributes to poverty reduction, inclusive growth, and human capital development, ensuring that financial limitations do not hinder access to higher education. With proper guidance and understanding, KIP-K is not merely a form of assistance but a symbol of hope for a brighter and more equitable future.



Students received scholarships from the National Zakat Collection Agency Program

A total of **83 students** received the 2024 Smart Scholarship from the Unpad Zakat Collection Unit (UPZ) Baznas, in support of **SDG 1: No Poverty**.

The symbolic handover took place at Taman Bale Rumawat Unpad. The scholarships were funded by zakat contributions from the Unpad community. The program provides financial assistance for living expenses, allowances, and tuition fees (UKT) for one semester. Priority is given to students recommended by their study program, faculty, or the university, particularly those from underprivileged families. Students may also apply independently by submitting the required documents.

The selection process included several stages, such as administrative screening, interviews, and focus group discussions before the final announcement of recipients.

Applicants must be active Unpad students, Muslim, have a minimum GPA of 3.00, come from low-income families (proven by an official certificate), and commit to becoming UPZ volunteers. This scholarship program not only reduces **economic inequality** but also contributes to **poverty alleviation** through access to higher education. It aligns with Unpad's commitment to promoting **inclusive and equitable education** as a pathway to social mobility. Dr. Hazbini expressed hope that this initiative will help underprivileged students continue their education while fostering a stronger culture of giving and social responsibility, ultimately supporting efforts to **break the cycle of poverty** within the academic community.



Conducting Marketplace Training as a Means to Develop Local MSMEs



The Community Service Program (KKN) Team 60 from Universitas Padjadjaran conducted a marketplace training program in Mekarsari Village. The initiative was based on the identification of Mekarsari's strong economic potential, particularly through its growing number of micro, small, and medium enterprises (MSMEs). Although some local entrepreneurs had begun utilizing marketplaces as marketing platforms, many remained unaware of the significant benefits of digital commerce due to limited access to information. To address this issue, the students organized a training session focusing on the creation and management of accounts on Shopee and GrabFood, which was attended by MSME participants from various hamlets in the village.

The training covered four main topics: the use of marketplaces, social media as a marketing tool, digital and marketplace security, and strategies for product development to attract consumers. Pre- and post-training assessments showed notable improvement in participants' understanding and practical application of marketplace platforms. Local entrepreneurs also began utilizing social media channels, such as WhatsApp Business and Instagram, to promote their products. This initiative successfully enhanced the community's digital literacy and confidence in online marketing, contributing to SDG 1: No Poverty by empowering rural MSMEs to expand market reach, increase income opportunities, and strengthen local economic resilience.

Developing a Tourism Magazine for Lebakmuncang Village, Ciwidey, Bandung Regency



The Community Service Program (KKN) Team 74 from Universitas Padjadjaran developed a tourism magazine highlighting the cultural and natural attractions of Lebakmuncang Village, Ciwidey, Bandung Regency. The team's effort to create a culture-based tourism database for the village. The project aimed to enhance accessibility and information for potential visitors through a digital publication integrating the 5A's in tourism Attraction, Activity, Accessibility, Accommodation, and Amenity. This magazine represents one of the tangible outputs of KKN 74, complementing the team's work on updating and digitizing existing tourism data. The team also applied modern digital technologies to collect, store, and manage information about the village's cultural tourism potential, making it more accessible to both domestic and international visitors.

Active community involvement has played a crucial role in developing Lebakmuncang's creative agrotourism. Through participatory programs, the village has strengthened the connection between tourists and residents, fostering an atmosphere of hospitality and cultural appreciation. As a recognized "Desa Pemajuan Budaya" (Cultural Advancement Village) under the decree of the Ministry of Education, Culture, Research, and Technology, Lebakmuncang has demonstrated the success of integrating cultural heritage with digital innovation. The KKN team also initiated a community-wide video competition to raise public awareness of local tourism potential. These initiatives align with Unpad's broader mission of empowering rural communities, promoting sustainable tourism, and supporting SDG 1: No Poverty by enhancing local livelihoods through culture-based and technology-driven economic development.

Connectivity as the Key to Accelerating Rural Development

The acceleration of rural development cannot be separated from regional development and connectivity. The relationship between rural and urban areas should be mutually beneficial. Sustainable rural development cannot be driven by a single policy intervention; rather, it must be integrated with other development policies. Infrastructure development in a particular region does not automatically lead to **economic growth, as it must be accompanied by other supporting factors** such as the establishment of service centers or development hubs, as well as the advancement of human capital.

5. Dampak Konektivitas

- Terciptanya koneksitas atau keterhubungan antar wilayah (desa-kota) diperlukan untuk membuka ruang-ruang baru untuk menyatukan suatu zona/wilayah tertentu dan juga membuka isolasi desa dan meningkatkan mobilitas.
- Contoh : Pembangunan jalan lingkar Timur kuningan membuka zona baru, melancarkan perjalanan dan membuka peluang usaha.





SDG 02

Zero Hunger

2 ZERO HUNGER



Research by Number (2020-2024)



Publication

440



Citation Impact

3.28



Citation Count

5,276



SDG 02 Zero Hunger



The Faculty of Animal Husbandry of Universitas Padjadjaran, in collaboration with the Food and Livestock Security Office

The Tri Dharma Perguruan Tinggi—comprising education and teaching, research, and community service—serves as the foundation of higher education in Indonesia. In line with this mandate, the Faculty of Animal Husbandry (Fapet) of Universitas Padjadjaran conducted a community service program in collaboration with the West Java Food and Livestock Security Office (Dinas Ketahanan Pangan dan Peternakan Jawa Barat). This collaboration integrated two major agendas: Fapet Unpad’s Fapet Berbagi program, held in celebration of its 61st anniversary, and DKPP Jabar’s 2024 Bulan Bakti Peternakan initiative.

The market potential for native chickens remains substantial, encouraging the community to focus on Sentul Jatiwangi breeding as a sustainable economic opportunity. To strengthen this effort, Fapet Unpad’s academic team provided practical knowledge and hands-on training in native chicken management, covering aspects such as breed characteristics, maintenance, management systems, and biosecurity. The interactive discussion between lecturers and villagers reflected strong community engagement, with participants raising context-specific questions regarding the practical application of the training in Cipeuteuy’s local environment. This collaborative initiative demonstrates the university’s role in empowering rural communities, enhancing food security, and supporting SDG 1: No Poverty through sustainable livestock development.

Distributed

5,000

chicken DOCs (day-old chicks) to the Sri Tanjung Women Farmers Group (KWT) in Cipeuteuy Village.

This initiative aimed not only to support local enterprise development but also to introduce Sentul Jatiwangi as a distinctive native chicken breed from West Java. This action highlighted that Cipeuteuy Village would serve as a model for Sentul Jatiwangi chicken development, emphasizing the importance of successful livestock management in this program.



Good Food, Greater Purpose: Oceano Cafe is Back at FPIK Unpad!

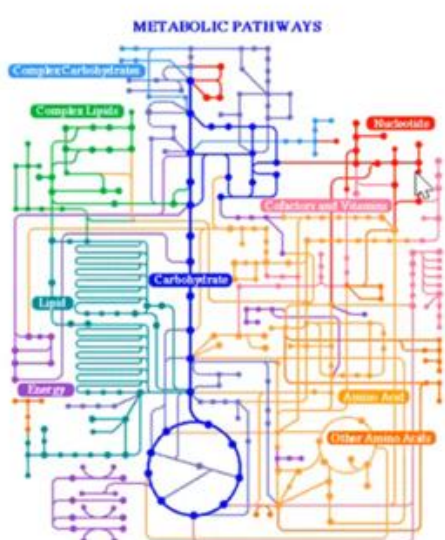
The Oceano Café at the Faculty of Fisheries and Marine Sciences (FPIK), Universitas Padjadjaran, officially reopened this week to welcome the incoming class of 2024. More than a student café, Oceano Café serves as a platform that integrates academic engagement, sustainable food systems, and community well-being. The café introduces a revitalized menu emphasizing locally sourced ingredients, particularly seafood and marine-based products, as part of its commitment to promoting sustainability in food production and consumption. This initiative aligns with Sustainable Development Goal (SDG) 2: Zero Hunger, which focuses on food security, nutrition, and sustainable agriculture. By prioritizing responsibly harvested marine products and collaborating with local micro, small, and medium-sized enterprises (MSMEs), Oceano Café contributes to strengthening local food resilience and fostering economic inclusivity within coastal communities.

Designed to be both educational and inclusive, Oceano Café ensures that its menu remains affordable for students without compromising nutritional quality or sustainability standards. The café also plans to host educational programs, including workshops and discussions, to increase awareness of sustainable food practices among students and faculty members. Beyond serving as a social space, Oceano Café exemplifies Universitas Padjadjaran's broader mission to promote sustainability and community empowerment through innovation in food systems. The reopening of the café thus represents not only the revival of a campus gathering place but also a tangible step toward advancing sustainable development and responsible consumption within the university environment.



Plant Genetic Engineering Plays an Important Role in Meeting Food Needs

REKAYASA GENETIKA : MEMAHAMI JALUR BIOSINTESIS



Suseno Amien

Zoom
KANAL MEDIA UNPAD

Saturday, 17 February 2024

SAJABI_Suseno Amien@2024

A professor from the Faculty of Agriculture, Universitas Padjadjaran, emphasized that **plant genetic engineering** can serve as an important innovation in achieving SDG 2: Zero Hunger, particularly in strengthening **food security and sustainable agriculture**. Through genetic modification, scientists are able to develop **prototype crops of the future** that possess new and desirable traits such as higher productivity, resistance to pests and diseases, and adaptability to climate change. These innovations are expected to address the increasing demand for food and ensure the sustainability of agricultural systems. By integrating biotechnology with responsible agricultural practices, genetic engineering can contribute to creating resilient food systems capable of meeting the nutritional needs of present and future generations.

Ensuring **food availability and accessibility** remains a key challenge for Indonesia, especially in the face of climate change and frequent natural disasters. Indonesia’s rich geographical diversity presents unique local characteristics that can be leveraged to develop region-specific crops through precision breeding and genetic engineering. This approach not only enhances local agricultural resilience but also promotes **sustainable food production** tailored to community needs. The professor also asserted that **genetically engineered crops** are safe for consumption, provided that laboratory and environmental procedures adhere to proper biosafety and ethical standards. Such innovations align with the goals of **sustainable development**, fostering agricultural advancement while maintaining environmental balance and public health.

Unpad Supports Halal Certification for MSME Entrepreneurs in Jawa Barat



Universitas Padjadjaran plays a significant role in advancing SDG 2: Zero Hunger by promoting **food safety, sustainable food production, and inclusive economic growth** through its support for the **halal certification** process of micro, small, and medium enterprises (MSMEs) in Jawa Barat. Through the assistance and guidance provided by its **Halal Research Center**, halal laboratories, and certified halal auditors, Unpad ensures that food products and other consumables meet international safety and ethical standards.

This effort contributes to enhancing **food quality assurance**, protecting consumers, and encouraging responsible production practices key aspects in achieving sustainable food systems aligned with.

Beyond certification, Universitas Padjadjaran strengthens the entrepreneurial capacity of local communities through its **business incubation center**, which supports and nurtures MSME growth in the agri-food sector. By integrating halal assurance systems into MSME operations, Unpad not only promotes **food security** but also empowers local producers to compete in both domestic and global markets. The university's commitment to building a sustainable halal ecosystem encourages innovation, ethical business practices, and inclusive economic participation ensuring that communities **can access safe, nutritious, and culturally appropriate food**. Through these initiatives, Unpad demonstrates how universities can bridge science, industry, and community engagement to achieve the broader vision of **Zero Hunger** and resilient local food economies.

In 2024, more than

20 MSMEs

successfully obtained halal certification through this initiative.

Unpad Applies Hydertetoyer to Help Address Feed Crisis in Sumedang



The Faculty of Animal Husbandry at Universitas Padjadjaran has developed an innovative approach to strengthen **food security** and promote **sustainable livestock production**, contributing directly to SDG 2: Zero Hunger. In response to the shortage of green fodder for dairy goats face, the faculty introduced the **Hydertetoyer technology** a controlled-environment system for producing high-quality animal feed sustainably. This innovation ensures an optimal growing environment that prevents the growth of fungi commonly found during cereal seed germination, thereby maintaining feed hygiene and safety. By integrating scientific research with community-based livestock management, this initiative supports **sustainable agricultural productivity** and the **resilience of small-scale farmers**.

Furthermore, the implementation of Hydertetoyer technology emphasizes the use of **local corn** as the main feed ingredient, substituting imported barley commonly used in international practices. This localization of feed resources not only reduces production costs but also strengthens **local food systems** and minimizes dependence on foreign inputs. In addition to improving the **quality and quantity of dairy goat milk production**, the initiative contributes to the **restoration of degraded land ecosystems**, particularly former C excavation areas, transforming them into productive spaces. Through innovation, sustainability, and local empowerment, Universitas Padjadjaran demonstrates how higher education institutions can drive **inclusive and sustainable agricultural growth**, ensuring better nutrition and livelihoods in line with the objectives of **sustainable food production systems**

Enhancing Community Competence in Producing Processed Agricultural Products



The training program held in Lebaksiuh Village aligns with SDG 2: Zero Hunger, particularly in **strengthening sustainable agriculture, food security**, and community capacity building. The program centered on developing marketing strategies for processed gedong gincu mango products, a **leading agricultural commodity** of the village. Through seminars and workshops, farmers gained new knowledge and practical skills related to value-added product development, branding, and market expansion. This initiative not only enhanced farmers' competence in processing agricultural products but also encouraged them to produce **high-quality, market-oriented goods** capable of increasing income stability. By integrating marketing education with local resource optimization, the program promoted **inclusive and sustainable agricultural growth**, supporting the productivity and income of small-scale food producers.

In addition to strengthening the agricultural sector, the program extended its scope to improve the **livestock farming system within the community**. Local livestock farmers received targeted assistance to increase production efficiency and animal welfare through **training on waste management**, improvement of housing and sanitation conditions, and guidance on **feed optimization**. These interventions help reduce environmental impact, ensure **sustainable food production**, and improve the nutritional quality of livestock outputs. The dual approach empowering crop and livestock farmers illustrates Universitas Padjadjaran's integrated commitment to advancing **sustainable rural development**. Through this initiative, the university supports community resilience, improves food availability, and strengthens the agricultural value chain.



SDG 03

Good Health and Well-being

3 GOOD HEALTH
AND WELL-BEING



Research by Number (2020-2024)



Publication

2,623



Citation Impact

2.56



Citation Count

38,148



SDG 03 Good Health and Well-being



Unpad Holds Blood Donation Drive to Support Those in Need

The blood donation drive, which involved

more than 165 participants,

represents Universitas Padjadjaran’s active contribution to advancing SDG 3: Good Health and Well-being, particularly in strengthening **public health systems, community awareness,** and social responsibility.

Beyond serving as a humanitarian act, the event also functioned as a public health education platform, promoting preventive healthcare and healthy lifestyle awareness among participants. Health professionals from Unpad Hospital provided **counseling sessions, emphasizing the role of regular medical checkups, balanced nutrition, and active lifestyles in improving individual well-being.** The campaign encouraged the public to take a proactive role in supporting the healthcare system by becoming regular blood donors. Through this initiative, Universitas Padjadjaran reinforces its commitment to building a healthier society, enhancing health equity, and supporting the broader goal of universal access to quality healthcare, as envisioned in SDG **targets reduce premature mortality from noncommunicable diseases and achieve universal health coverage.**

Organized in collaboration with **Unpad Hospital** and the Indonesian Red Cross (PMI) of Sumedang Regency, the initiative aimed to raise public understanding of the importance of regular blood donation in maintaining an adequate and safe blood supply. This activity not only provided life-saving resources for patients in need but also promoted the values of **solidarity, volunteerism, and community resilience.** The collective participation of students, staff, and local residents demonstrated how collaborative health initiatives can create tangible social impact and foster a culture of care within the community.



“Unpad Wellness” Program Encourages the Unpad Community to Become Agents of Change

The **Unpad Wellness Initiative** represents Universitas Padjadjaran’s commitment to advancing SDG 3: Good Health and Well-being, particularly in promoting **healthy lifestyles, disease prevention, and workplace well-being.**

The program involves

100 participants

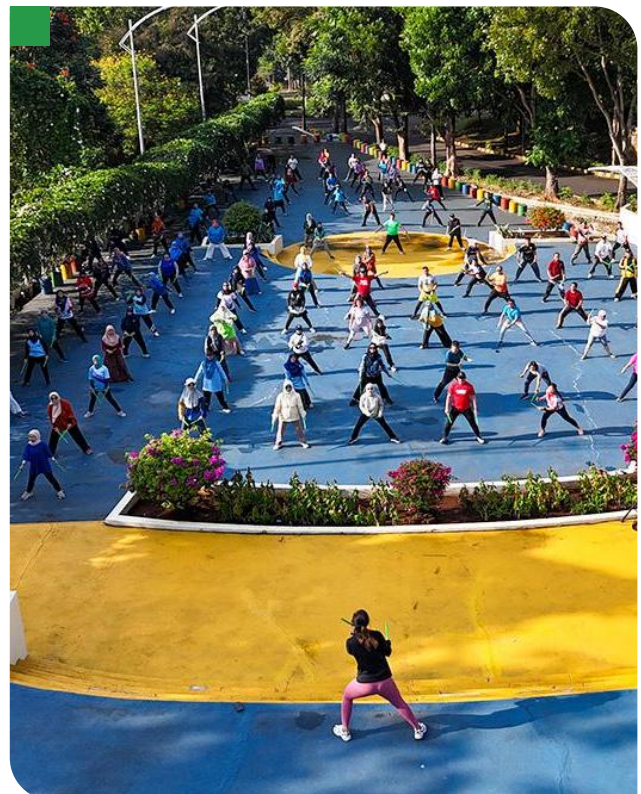
comprising university leaders, faculty executives, lecturers, and educational staff who will undergo a three-month structured mentoring program.



The Unpad Wellness Initiative serves as a model for integrating health promotion into institutional culture, contributing to SDG Target reduce premature mortality from non-communicable diseases) and strengthen prevention and treatment of mental health and well-being, while reinforcing Universitas Padjadjaran’s broader mission to nurture a healthy, productive, and resilient academic community.

Each participant is also encouraged to invite five additional individuals, expanding the program’s reach and fostering a culture of health awareness across the academic community. This initiative underscores the university’s belief that well-being and productivity are interlinked, and that the physical and mental health of its members are foundational to sustaining institutional excellence and academic performance. By cultivating wellness-oriented habits, Unpad seeks to establish a supportive environment where health becomes a shared institutional value.

The program’s implementation is guided by measurable health performance indicators, including reductions in waist circumference, blood pressure, and cholesterol levels, as well as the achievement of a healthy body weight among participants. Regular monitoring, mentoring, and health education sessions form the backbone of this initiative, empowering individuals to take proactive steps in managing their health. Beyond physical outcomes, the program encourages behavioral change, mental health awareness, and stress management, ensuring holistic well-being within the university.



Free Eye Examination to Promote Physical Health



This initiative further illustrates Unpad’s role as a socially responsible institution that bridges academic expertise with community service. Through collaboration between academia and the healthcare sector, the program strengthens public health literacy and expands access to essential medical services. Such partnerships play a vital role in building a healthier society, reducing health disparities, and fostering a culture of preventive care. Ultimately, this activity not only enhances the well-being of the Unpad community but also contributes to national efforts in achieving universal health coverage and promoting sustainable development through equitable healthcare access.

More than 200 participants

took part in a free eye examination program that included visual acuity tests, comprehensive medical eye check-ups, and the provision of prescriptions or eyeglasses at no cost.

This initiative demonstrates Universitas Padjadjaran’s strong commitment to promoting public health and well-being in alignment with Sustainable Development Goal (SDG) 3: Good Health and Well-Being. By providing accessible eye care services, the program contributes to early detection and prevention of vision-related health issues, particularly among students, faculty members, and their families. The high level of participation also reflects the growing awareness within the university community of the importance of maintaining physical health as a foundation for academic and professional productivity.



Unpad Psychological Services



Universitas Padjadjaran demonstrates a strong commitment to promoting **mental health and well-being**, in alignment with SDG 3: Good Health and Well-being, which emphasizes reducing mental health burdens and strengthening preventive care. Through the **Center for Character Development and Counseling**, the university provides free and accessible **psychological consultation services** for both students and staff. These services aim to help members of the academic community develop resilience, manage stress, and achieve emotional balance while navigating academic and social challenges. By offering professional counseling support, the university ensures that mental health is treated as an integral part of holistic well-being, complementing efforts to enhance academic performance and personal growth.

The counseling center's programs encompass a broad range of issues, including learning difficulties, career planning, academic and interpersonal relationships, and adjustment to university life. In addition, the center provides support for those experiencing stress, depression, anxiety, frustration, or emotional distress, helping them find healthy coping mechanisms through character-building and therapeutic interventions. These initiatives not only enhance individual well-being but also foster a supportive and inclusive campus environment where mental health awareness is openly discussed and prioritized. By embedding mental health care within its institutional framework, Universitas Padjadjaran actively contributes to SDG Target 3.5, promoting mental health education, early intervention, and accessible counseling services that empower its academic community to thrive both personally and professionally.

Health Services Provided by UNPAD



Unpad provides a comprehensive range of **health services**, including a **General Clinic, Dental and Oral Clinic, Maternal and Child Health (MCH) Clinic, Clinical Laboratory, Pharmacy, Medical Team Services, Ambulance, Medical Check-Up, and Unpad Gym**. These facilities are open not only to students and staff but also to the wider community, ensuring equitable **access to essential healthcare services**. The medical team comprising qualified doctors, dentists, nurses, and pharmacists delivers professional and holistic care to meet diverse health needs. Regular health education initiatives and preventive programs are also organized to promote healthy lifestyles and raise awareness about disease prevention. The Clinical Laboratory supports accurate diagnosis and effective treatment through modern equipment and standardized medical procedures, while the Unpad Gym encourages physical activity and wellness as integral components of overall health.

Through these integrated efforts, Universitas Padjadjaran contributes to Sustainable Development Goal (SDG) 3: Good Health and Well-Being, which emphasizes ensuring healthy lives and promoting well-being for all. Unpad's healthcare initiatives aim to enhance the quality of life of its academic community and surrounding residents by **prioritizing accessibility, prevention, and continuous health education**. The university's commitment to health promotion aligns with broader national and global efforts to achieve universal health coverage and strengthen community resilience through preventive healthcare. By combining medical services, physical fitness programs, and educational outreach, Unpad demonstrates a model of sustainable campus health management that supports long-term productivity, inclusivity, and social well-being.



SDG 04

Quality Education



Research by Number (2020-2024)



Publication

141



Citation Impact

1.69



Citation Count

1,055



SDG 04 Quality Education

4 QUALITY EDUCATION



Unpad Provides Free Internet Access for Anyone Visiting the Areas Surrounding Its Campus



Beyond facilitating access to information, this program plays a vital role in enhancing **digital literacy** and fostering a culture of continuous learning, particularly among youth and entrepreneurs. By encouraging the community to explore and utilize digital tools for education and business, Unpad contributes to the development of 21st-century skills such as creativity, innovation, and problem-solving—key competencies in the era of digital transformation. Moreover, by helping bridge the **digital divide** between urban and rural populations, the initiative promotes **educational inclusivity and social equity**, enabling equal access to knowledge and opportunity. Through this effort, Universitas Padjadjaran demonstrates how higher education institutions can leverage digital infrastructure to empower communities, reduce educational disparities, and **support sustainable human capital development in alignment with equal access to higher education and skills for work and entrepreneurship**.

This initiative underscores Universitas Padjadjaran’s commitment to advancing SDG 4: Quality Education, particularly in promoting **inclusive and equitable access to education** through digital empowerment. By providing **free internet access** to students, local residents, and small business owners, Unpad ensures that the surrounding community can easily connect to **digital learning platforms**, access online educational resources, and engage in research and innovation. This inclusive approach reflects Unpad’s broader vision of democratizing education by removing technological and economic barriers that limit learning opportunities. The initiative also strengthens the university’s social responsibility role, positioning it as an active agent in expanding **lifelong learning opportunities** for all members of society.



National Seminar on Food Security and Agri Summit 2024 at Universitas Padjadjaran

One of the main challenges facing the agricultural sector today is generational regeneration, as most agricultural workers are over 45 years old and only **19.2 percent of youth** express interest in entering the field.

Recognizing this challenge, Universitas Padjadjaran integrates education, innovation, and research to make agriculture more appealing to younger generations, aligning with SDG 4: Quality Education, particularly in promoting **relevant skills for decent work and sustainable livelihoods**. Through academic programs, applied research, and community engagement, Unpad introduces youth to **modern agricultural technologies**, entrepreneurship, and innovation-based learning that connect traditional knowledge with digital transformation. These educational efforts are designed to cultivate future agricultural leaders who possess both technical expertise and a deep understanding of local wisdom, contributing to **sustainable food systems** and long-term food sovereignty.

To further promote learning and collaboration within the agricultural ecosystem, Universitas Padjadjaran organized the Agri Summit 2024, which served as a platform for **knowledge sharing, capacity building, and multi-stakeholder collaboration**. The event not only strengthened MSMEs in the agri-food sector by expanding market access but also encouraged partnerships between academia, industry, and local communities. By combining research-based education with innovation and entrepreneurship, Unpad supports the creation of a new generation of skilled agricultural professionals who can drive transformation in rural economies. This initiative embodies the university's role as a catalyst for **lifelong learning, vocational training, and community empowerment**, contributing directly to **inclusive access to higher and technical education and education for sustainable development** while addressing the urgent need for agricultural regeneration in Indonesia.



Providing Services to the Community in the Form of Education Regarding Library Management

The public lecture session material is *Communication Skills for Information Professionals*. The effective communication is essential for conveying ideas, building understanding, and achieving goals. The session was designed to broaden students' perspectives on the importance of communication in professional contexts, particularly within the field of Library and Information Science. This visit also aimed to enhance students' knowledge about Universitas Padjadjaran (Unpad) in general and the Faculty of Communication Sciences (Fikom) in particular, fostering academic engagement and inspiration among future information professionals.

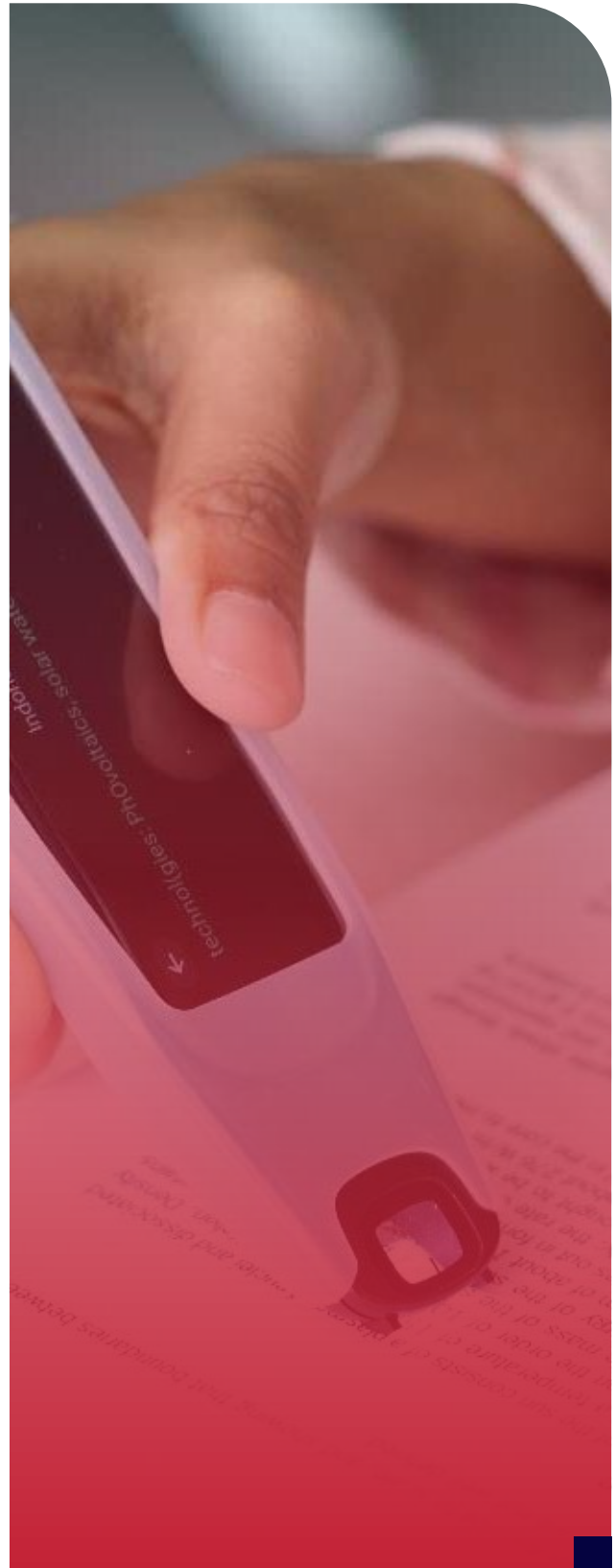
The profession of Library and Information Science graduates has expanded beyond traditional librarianship to include careers in document control, digital asset management, and record administration across various sectors. This shift reflects the growing demand for information experts capable of managing knowledge and data in a technologically advanced environment. Future oriented learning that equips students with practical communication and digital literacy skills empowering them to become competent, confident professionals who contribute to knowledge management and lifelong learning.



Accessibility for Students and Guests with Disabilities at Universitas Padjadjaran

Universitas Padjadjaran is strongly committed to creating an inclusive and equitable academic environment for all, including students and guests with disabilities. The university provides various accessibility facilities such as disability-friendly toilets, assistive learning services, and special support units that ensure equal participation in academic and social activities. These facilities are designed to accommodate diverse needs, allowing individuals with physical, sensory, or learning disabilities to access campus infrastructure and educational resources comfortably and independently.

This initiative aligns with **(SDG) 4: Quality Education**, which emphasizes inclusive and equitable access to education for all learners. Through continuous improvement in accessibility services, Unpad ensures that no one is left behind in pursuing higher education. The implementation of assistive learning technologies, inclusive teaching practices, and physical accessibility enhancements demonstrates the university's dedication to fostering diversity, respect, and empowerment for persons with disabilities within its academic community.





Accessible Research Laboratories at Universitas Padjadjaran

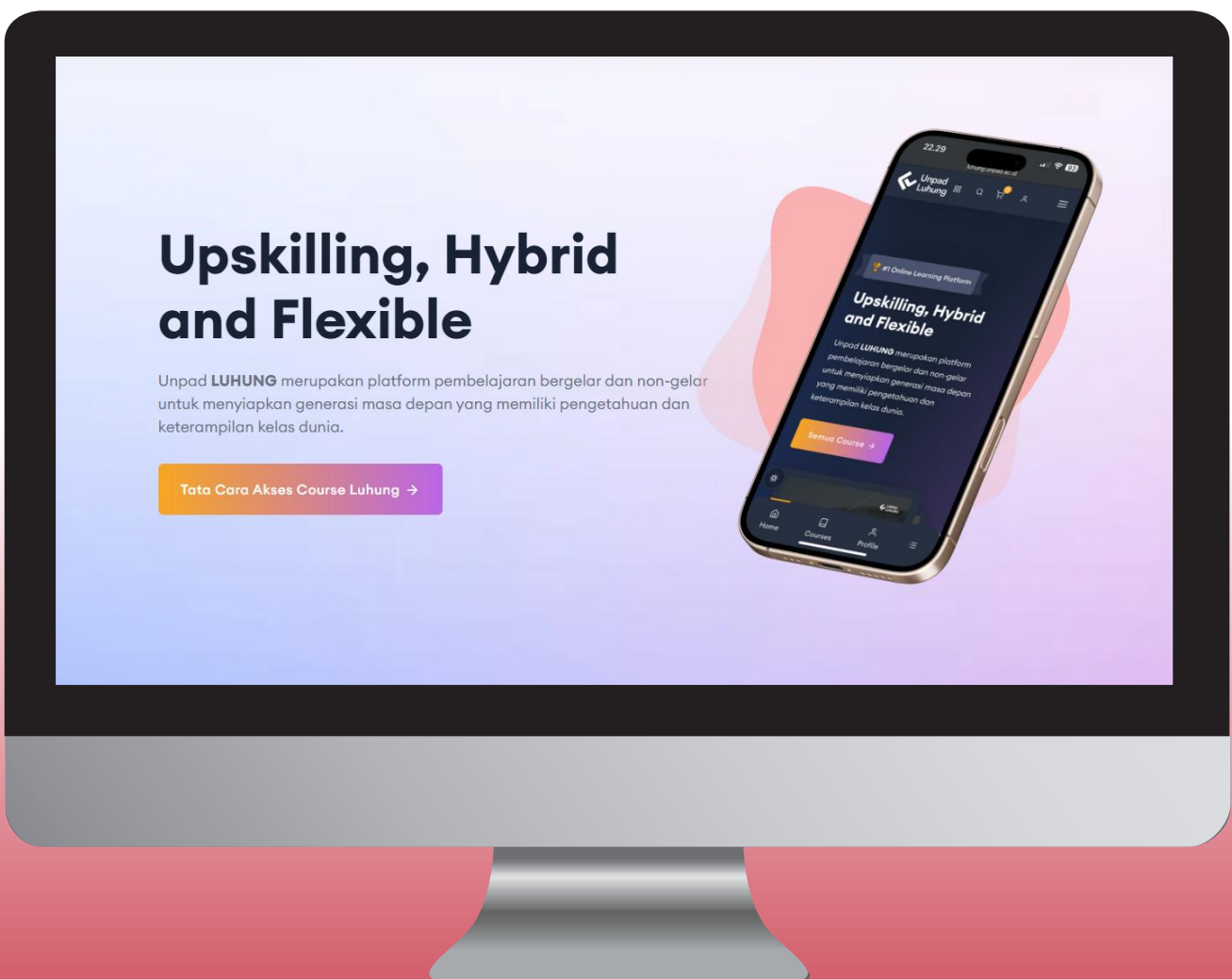
Universitas Padjadjaran provides open access to its research laboratories for both students and the wider community, reinforcing its commitment to inclusive and collaborative education. These laboratories support a wide range of disciplines, including medical sciences, food technology, chemistry, environmental studies, and social sciences. By offering access to modern laboratory facilities, Unpad enables learners, researchers, and professionals to conduct high-quality experiments and studies that contribute to scientific advancement and community development. This open-access policy fosters innovation and encourages interdisciplinary collaboration, ensuring that knowledge creation is not limited to internal stakeholders but extends to external partners and the general public.

Particularly the target of promoting lifelong learning opportunities and equitable access to quality research facilities. Through its inclusive research ecosystem, Unpad empowers individuals to enhance their technical skills, strengthen their scientific literacy, and participate actively in knowledge-based development. By bridging academia and society, Unpad's accessible laboratories not only support academic excellence but also contribute to building a culture of continuous learning, innovation, and evidence-based problem-solving for sustainable progress.

Unpad Luhung: An Educational Platform for the Public

Universitas Padjadjaran launched *Unpad Luhung* as a digital education platform designed to make knowledge from Unpad’s experts accessible to the general public. This platform offers a wide range of learning materials across disciplines, including natural sciences, social sciences, and humanities, enabling anyone—students, professionals, or lifelong learners—to gain valuable insights directly from academic practitioners. Through *Unpad Luhung*, the university bridges the gap between higher education and society, ensuring that scientific knowledge and research findings can be shared openly for the benefit of all. The platform embodies Unpad’s mission to promote inclusive and equitable access to education through technology-driven learning innovations.

Unpad Luhung contributes to expanding lifelong learning opportunities and reducing barriers to quality education. By offering open-access educational resources, it empowers individuals to enhance their knowledge, critical thinking, and professional skills regardless of their background or geographic location. Moreover, the platform supports Unpad’s vision of being “*Bermanfaat dan Mendunia*” by fostering a culture of continuous learning and knowledge sharing that benefits both local communities and the global audience. Through *Unpad Luhung*, education becomes more inclusive, participatory, and impactful in advancing sustainable human development.





SDG 05

Gender Equality



Research by Number (2020-2024)



Publication

135



Citation Impact

9.18



Citation Count

3,202



SDG 05 Quality Education



Tough Women of West Java Towards a Golden Indonesia 2045

Universitas Padjadjaran, in collaboration with the Indonesian Population Coalition (KKI) of West Java Province, held a webinar titled “Perempuan Tangguh Jawa Barat Menuju Indonesia Emas 2045.” The discussion highlighted the global trends in gender inequality within the labor market, emphasizing that women remain disproportionately represented in the informal sector and part-time employment compared to men. The webinar explored structural and cultural challenges that hinder women’s full participation in the workforce, advocating for greater gender inclusivity and equitable access to decent work opportunities. This aligns with Sustainable Development Goal (SDG) 5: Gender Equality, which calls for the empowerment of women and the elimination of barriers that limit their economic and social participation.

The speakers also underscored the importance of balancing women’s professional and domestic roles in achieving sustainable development, particularly in ensuring the right to exclusive breastfeeding (ASI eksklusif) for newborns. This aspect not only relates to child health and maternal well-being but also reflects gender-sensitive policies that support working mothers. The discussion further highlighted the social and economic costs associated with the lack of exclusive breastfeeding, reinforcing the need for stronger institutional and policy frameworks that enable women to contribute fully to national development. Through this collaborative effort, Unpad and KKI West Java reaffirm their commitment to advancing gender equality and women’s empowerment as key drivers for achieving a prosperous and inclusive Indonesia Emas 2045.





From Campus to TikTok: Dr. Ira Mirawati's Efforts to Educate through Digital Platforms

Dr. Ira Mirawati, Head of the Communication Management Program at Universitas Padjadjaran, exemplifies women's leadership in digital education through her active use of social media as a platform for learning. Known affectionately as Bu Ira, she gained national recognition as a nominee for the 2020 TikTok Awards Indonesia in the Best of Learning and Education category. Through her TikTok account, @buiramira, she regularly shares insightful content on academic writing, thesis guidance, and essential skills for university students, particularly in the field of communication. Her work reflects the transformative role of women educators in breaking gender barriers and promoting inclusive access to education through innovative, technology-based approaches.

Speaking at the discussion event “#SerunyaBelajar on TikTok: Celebrating National Teachers' Day”, Dr. Ira highlighted how she combines academic expertise with digital communication to make learning more engaging and accessible. Her approach demonstrates how women in academia can lead digital transformation and inspire younger generations, particularly young women, to pursue education and self-development confidently. By bridging formal education and social media, Dr. Ira not only contributes to digital literacy but also strengthens women's visibility and influence in the educational and technological spheres, fostering empowerment and equality in the digital era.

Women Serve as Structural Members in the Faculty

Women play an active and integral role as structural members within the faculties of Universitas Padjadjaran, reflecting the university’s strong commitment to promoting **Sustainable Development Goal (SDG) 5: Gender Equality**. Unpad ensures equal opportunities for all individuals—regardless of gender—to participate in decision-making processes and assume leadership positions across academic and administrative levels. This inclusive approach underscores the university’s recognition of women’s contributions in shaping institutional policies, advancing research, and fostering innovation within the academic community.

Furthermore, Universitas Padjadjaran is dedicated to maintaining a safe, respectful, and discrimination-free environment for everyone. The university’s culture embraces diversity and equity, ensuring that all members—women and men alike—can thrive based on merit and capability. By embedding gender equality principles in its governance and workplace culture, Unpad not only supports women’s empowerment in higher education but also sets an example of inclusive leadership that contributes to sustainable and equitable institutional development.



Three Unpad Women Win Professorships



Three outstanding women from Universitas Padjadjaran have recently achieved the highest academic rank of professorship, marking a significant milestone in promoting **Sustainable Development Goal (SDG) 5: Gender Equality** within higher education. The Rector expressed deep appreciation and congratulations to the new professors, highlighting that their achievement reflects the growing recognition of women’s excellence and leadership in academia. This milestone also underscores Unpad’s commitment to ensuring equal opportunities for women scholars to thrive and contribute meaningfully to academic and scientific advancement.

As professors, these women are expected to lead by example through high-quality teaching, original research, and active participation in developing their departments and research groups. Their presence in top academic positions not only strengthens Unpad’s intellectual community but also serves as an inspiration for younger women pursuing academic careers. Through their contributions, Unpad continues to build an inclusive and empowering academic environment that values women’s leadership, excellence, and innovation in advancing knowledge and education.

Women's Empowerment Training

Universitas Padjadjaran organized a *Women's Empowerment Training* program focused on enhancing women's economic capacity through the development of sustainable and creative micro, small, and medium enterprises (MSMEs). The one-day training featured speakers from the MES Regional Management and various professional partners, creating a collaborative platform for sharing knowledge, best practices, and business strategies. This initiative aligns with **Sustainable Development Goal (SDG) 5: Gender Equality**, emphasizing women's empowerment in entrepreneurship and economic participation.

The program aims to strengthen women-led MSMEs by fostering innovation, creativity, and environmental sustainability in business practices. Through this collaboration, participants gained practical insights into developing high-quality, market-oriented, and eco-friendly products. By equipping women entrepreneurs with the skills and networks needed to thrive, this training supports inclusive economic growth, gender equality, and long-term community resilience—reflecting Unpad's broader commitment to empowering women as key drivers of sustainable development.





SDG 06

Clean Water Sanitation

6 CLEAN WATER
AND SANITATION



Research by Number (2020-2024)



Publication

198



Citation Impact

3.63



Citation Count

2,344



SDG 06

Clean Water Sanitation

6 CLEAN WATER AND SANITATION



(Unpad) has Developed a Smart Pollutant Tracker, an Innovation for Detecting Chemical Waste in Rivers.

Universitas Padjadjaran (Unpad) has developed a Smart Pollutant Tracker, an innovative device designed to detect chemical waste contamination in rivers continuously and accurately. The device operates 24/7, with one unit installed along each monitored riverbank. It features a submerged sensor that transmits real-time data to a central server via the internet whenever pollutants are detected. The collected data are then monitored through a digital application accessible on smartphones and computers, enabling rapid response and effective pollution control. Currently, the detection system is being utilized internally, including by the *Citarum Harum* Task Force, as part of ongoing efforts to restore and maintain river health in West Java.

This innovation contributes directly to Sustainable Development Goal (SDG) 6: Clean Water and Sanitation, which emphasizes protecting water quality and reducing pollution. By leveraging technology to detect chemical anomalies—identified when readings fall below 10,300 kOhm—the Smart Pollutant Tracker enhances early detection and supports evidence-based environmental management. This initiative reflects Unpad’s commitment to advancing research-based solutions that safeguard freshwater ecosystems, strengthen environmental monitoring, and promote sustainable water resource management in Indonesia.





Water Sampling Training

The Center for Excellence in Environment and Sustainability Science (PULIK) at Universitas Padjadjaran conducted a specialized training session on “Water Sampling,” aimed at strengthening participants’ understanding of environmental monitoring and analysis. The program emphasized the importance of mastering accurate sampling techniques to support water quality research and sustainable resource management. This initiative reflects the commitment of PULIK’s Ecology Laboratory—accredited under KAN ISO 17025:2017—to advancing scientific excellence and improving environmental quality, particularly in aquatic ecosystems.

Aligned with Sustainable Development Goal (SDG) 6: Clean Water and Sanitation, the training supports efforts to ensure the availability and sustainable management of water resources. By equipping participants with technical and analytical skills, the program contributes to developing competent professionals capable of addressing challenges in water resource research and management. This initiative also reinforces Unpad’s broader mission to promote sustainability through science-based education, innovation, and environmental stewardship.



Ekoriparian Unpad as a Model of Campus Sustainability

Universitas Padjadjaran continues to strengthen its sustainability initiatives through the development of the *Ekoriparian* facility, which serves as a tangible example of environmental stewardship within the university campus. This facility plays a crucial role in improving indicators related to energy and climate change, particularly in the area of renewable energy development and resource efficiency. The *Ekoriparian* functions as a wastewater treatment system that enables liquid waste to be processed and reused as clean water for downstream applications, such as irrigation and environmental maintenance. By integrating science, technology, and ecological awareness, Unpad's *Ekoriparian* demonstrates how research-based solutions can effectively address environmental challenges while supporting sustainable campus operations.

This initiative reflects Unpad's strong commitment to responsible water management and pollution reduction. Through the implementation of wastewater recycling and carbon emission reduction efforts, the *Ekoriparian* contributes to the preservation of water resources and promotes efficient use of natural assets. Moreover, it serves as a living laboratory for students and researchers to learn about sustainable water systems and environmental technologies. By fostering innovation and practical learning, Unpad not only ensures campus sustainability but also inspires broader community engagement in achieving clean water and environmental resilience.



Water Conservation at Universitas Padjadjaran

Universitas Padjadjaran implements various water conservation initiatives as part of its commitment to environmental sustainability and responsible resource management. The university has developed designated areas for water conservation and rainwater harvesting, designed to collect, store, and filter rainwater for reuse in daily campus operations. This system helps reduce dependence on groundwater sources while ensuring a consistent supply of water for non-potable uses such as irrigation, sanitation, and facility maintenance. By integrating eco-friendly infrastructure with practical water management strategies, Unpad demonstrates how higher education institutions can serve as models for sustainable water use and conservation.

Emphasizes the sustainable management of water resources and access to clean water for all. Through rainwater harvesting and efficient water reuse systems, Unpad contributes to reducing water waste, mitigating the impacts of climate change, and enhancing environmental resilience within the campus ecosystem. Furthermore, these conservation practices also function as educational tools—providing students and researchers with real-world examples of sustainable water technologies and environmental responsibility. By promoting awareness and action, Unpad actively participates in achieving a cleaner, more sustainable future through integrated water conservation efforts.



Cikahuripan: Drinking Water Stations at Universitas Padjadjaran



Universitas Padjadjaran has installed several *Cikahuripan* drinking water stations across campus buildings as part of its sustainability and health initiatives. These water dispensers provide students, staff, and visitors with free access to clean, safe, and ready-to-drink water. The name *Cikahuripan*, which means “source of life,” symbolizes Unpad’s commitment to promoting health, environmental responsibility, and resource efficiency. By providing accessible drinking water facilities, Unpad reduces the use of single-use plastic bottles and encourages environmentally conscious behavior among the academic community. This initiative also serves as a practical implementation of the university’s environmental awareness programs, emphasizing the importance of sustainable resource management in daily life.

The *Cikahuripan* project focuses on ensuring the availability and sustainable management of clean water for all. Through this initiative, Unpad demonstrates its dedication to water conservation, health promotion, and sustainable campus infrastructure. The availability of safe drinking water not only supports the well-being of the campus community but also exemplifies how higher education institutions can take proactive steps toward achieving water sustainability. By integrating accessibility, innovation, and environmental care, Unpad continues to lead by example in fostering a clean, healthy, and sustainable campus environment.



SDG 07

Affordable and Clean Energy

7 AFFORDABLE AND CLEAN ENERGY



Research by Number (2020-2024)



Publication

171



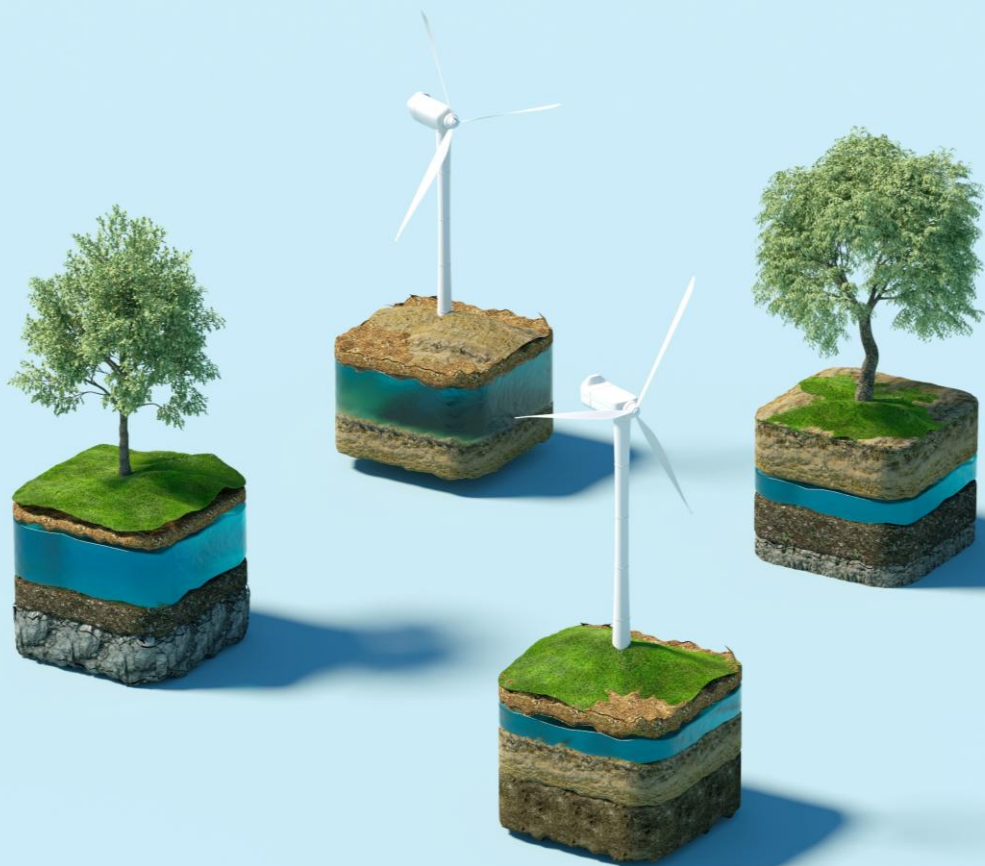
Citation Impact

1.42



Citation Count

1,642



SDG 07 Affordable and Clean Energy

7 AFFORDABLE AND
CLEAN ENERGY



Fikom Unpad dan Pertamina NRE Bersinergi Wujudkan Edukasi Transisi Energi Bersih Menuju Net Zero Emission 2060

Universitas Padjadjaran, through the Faculty of Communication Sciences (Fikom), plays an active role in supporting the transition toward clean and renewable energy in Indonesia. On April 22, 2024, Fikom Unpad organized a public lecture titled “*Communication Strategies in the Development of New and Renewable Energy*,” in collaboration with PT Pertamina New and Renewable Energy (Pertamina NRE). The lecture discussed the role of communication in promoting and adopting renewable energy, as well as being part of efforts to raise awareness of the energy transition among the academic community. During the event, a Cooperation Agreement was also signed between the Dean of Fikom Unpad, Dr. Dadang Rahmat Hidayat, M.Si., and the Corporate Secretary of Pertamina NRE, Dicky Septriadi, to integrate expertise and resources in developing renewable energy education programs.

Through this collaboration, both parties are committed to implementing various activities such as seminars, workshops, the development of educational materials, field visits, and public campaigns through mass media and digital platforms. The partnership between Unpad and Pertamina NRE serves as a tangible example of synergy between academia and the national energy industry in supporting sustainable energy transformation and achieving the *Net Zero Emission 2060* target. Through strategic communication approaches, Unpad strengthens its contribution to fostering public awareness and participation in the use of clean energy, in line with Sustainable Development Goal (SDG) 7: Affordable and Clean Energy.





Unpad Leads by Example: Pioneering Solar Energy Innovation to Drive Indonesia’s Sustainable Future

Universitas Padjadjaran has demonstrated its strong commitment to the use of clean energy through the inauguration of a Solar Power Plant (PLTS) at the Jatinangor Campus on October 4, 2024. The development of this solar power facility is the result of collaboration between Unpad and PT Empat Mitra Indika Tenaga Surya (EMITS) as a concrete step to support the transition toward green energy. This initiative aligns with Unpad’s Core Scientific Pattern (Pola Ilmiah Pokok), “*Bina Mulia Hukum dan Lingkungan Hidup dalam Pembangunan Nasional*” (“Noble Development of Law and the Environment in National Development”), which emphasizes the importance of balance between development and environmental preservation. Through the implementation of the solar power system, Unpad aims to reduce its dependence on fossil fuels and lower carbon emissions, while serving as a role model for other educational institutions in adopting renewable energy technologies.

The Vice Rector for Research and Innovation of Unpad, Prof. Dr. Ir. Hendarmawan, M.Sc., stated that the establishment of the solar power plant is a tangible form of green energy implementation and a reflection of the university’s commitment to environmental preservation. According to him, the operation of this facility not only demonstrates Unpad’s serious concern for environmental issues but also strengthens the university’s role as an Eco Campus icon in Indonesia. The use of solar energy within the campus environment is expected to inspire both educational institutions and other organizations to transition toward more sustainable and environmentally friendly energy sources.

Through this initiative, Unpad reaffirms its position as a pioneer in sustainable energy transformation within the higher education sector. The installation of the solar power system on campus represents a concrete manifestation of the university’s support for achieving Sustainable Development Goal (SDG) 7: Affordable and Clean Energy, while also contributing to Indonesia’s national target of achieving *Net Zero Emission 2060*. By utilizing solar energy as an alternative power source, Unpad not only creates a positive environmental impact but also strengthens a culture of sustainability among its academic community.



Unpad Builds Awareness on Energy Innovation and Independence for a Sustainable Future

Universitas Padjadjaran continues to demonstrate its commitment to supporting the transition toward clean energy and national energy independence through the organization of the Drilling Innovation Forum 2024, themed “Empowering Drilling Innovation for Sustainable National Energy Security,” held at Bale Sawala, Rectorate Building, Unpad Jatinangor, on November 14, 2024. The event featured Dr. Syaiful Kurniawan, Director of Marketing and Development at Pertamina Drilling Services Indonesia, as the keynote speaker, alongside VP of Rig Services Operation, Komedi, and Manager of Human Capital Development, Kartini Karim. The forum discussed the importance of technological innovation and cross-sector collaboration in supporting sustainable national energy security, in alignment with the global commitment to reducing carbon emissions and advancing renewable energy development.

In his presentation, Dr. Syaiful emphasized that global energy consumption will increase significantly by 2050, while fossil energy sources, which still dominate today, are non-renewable and produce high carbon emissions. Therefore, strategic efforts are needed to accelerate the development of new and renewable energy (NRE) and technological innovations that promote energy efficiency. He also highlighted the importance of achieving energy independence in Indonesia to reduce dependence on oil imports, allowing state budget resources to be redirected toward sustainable energy development.

Through this forum, Universitas Padjadjaran plays an active role as an academic platform that brings together students, researchers, and industry professionals to discuss innovative solutions for the future of national energy. This activity reflects Unpad’s contribution to advancing knowledge and technology that support Sustainable Development Goal (SDG) 7: Affordable and Clean Energy, with a focus on innovation, collaboration, and education aimed at achieving Indonesia’s future energy independence.



Empowering Rural Sustainability: Unpad's Solar Energy Innovation Supports Clean Energy Transition in Cilayung Village

The implementation of the solar-powered RAS system has generated multiple positive impacts, including improved energy efficiency, enhanced environmental quality, and greater local energy independence. This initiative exemplifies Universitas Padjadjaran's dedication to fostering community empowerment through clean energy innovation and underscores the university's contribution to achieving Sustainable Development Goal 7: Affordable and Clean Energy.



Universitas Padjadjaran, through the Department of Physics and its Community Service Program (KKN), has taken a significant step toward advancing renewable energy innovation and rural sustainability by installing solar panels in Cilayung Village, Jatinangor, on August 30, 2024. This initiative, carried out in collaboration with local village authorities and Unpad students, provides an alternative power source for a Recirculating Aquaculture System (RAS) used in catfish farming. The system utilizes solar energy to operate water filtration technology, ensuring continuous clean water circulation essential for sustainable aquaculture practices.

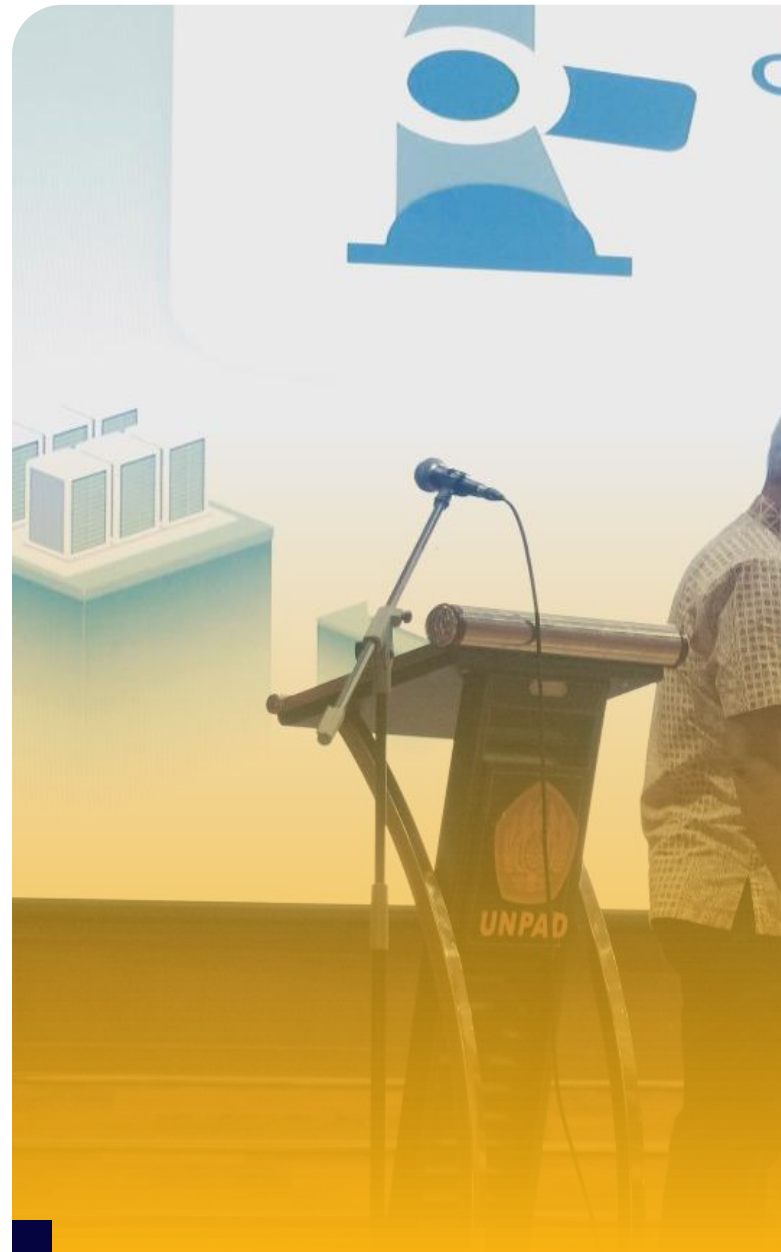


This program supports both SDG 6 (Clean Water and Sanitation) by maintaining water quality and SDG 7 (Affordable and Clean Energy) through the use of renewable solar energy. It serves as a real-world application of green energy technologies in community-based development while also offering students hands-on experience in implementing environmentally sustainable innovations. The project reflects Unpad's academic commitment to integrating science, technology, and social engagement in pursuit of sustainable energy solutions.



Advancing the Clean Energy Transition: Unpad's National Seminar Futura 2024 Strengthens Commitment to SDG 7

Universitas Padjadjaran, through the Electrical Engineering Student Association (HMTE) of the Faculty of Mathematics and Natural Sciences (FMIPA) in collaboration with the Student Energy Council (DEM), demonstrated its strong commitment to promoting clean and sustainable energy transition by organizing the National Seminar Futura 2024 under the theme *“Utilizing Renewable and Non-Renewable Energy to Achieve Net Zero Emission 2060.”* The event was held on November 9, 2024, at Graha Sanusi Hardjadinata, Unpad Dipatiukur Campus, with the support of several strategic partners including PT Indonesia Asahan Aluminium (Inalum), Pertamina New & Renewable Energy (Pertamina NRE), PT PLN, PT Pertamina Hulu Indonesia, Allobank, Megaland Artha Sentosa, and Gojek.



This seminar served as a collaborative platform to enhance public understanding and awareness—particularly among the younger generation—about the importance of supporting Indonesia’s energy transition toward the Net Zero Emission 2060 target. The event was officially opened by Unpad Vice Rector for Research, Collaboration, and Marketing, Prof. Rizky Abdulah, S.Si., Apt., Ph.D., and FMIPA Vice Dean for Academic and Student Affairs, Yudhie Andriyana, M.Sc., Ph.D., who emphasized the critical role of innovation and youth engagement in addressing future energy challenges.



The seminar featured expert speakers from various sectors, including Pertamina NRE, PT Inalum Hydro Power, the Directorate General of New, Renewable Energy and Energy Conservation (EBTKE), and the Center for Energy Security Studies, who discussed strategies and innovations in renewable energy development, government policies, and industry contributions to sustainable energy advancement in Indonesia.

The event attracted more than 200 participants, ranging from secondary school students to university students, and was complemented by TechnoFest, an interactive technology exhibition featuring organizations and startups such as U-Tech, Irostech Solusi Inteligen, and Oprobooth360. Through this event, Universitas Padjadjaran reaffirmed its contribution to raising youth awareness on the importance of clean and efficient energy use, aligning with Sustainable Development Goal (SDG) 7: Affordable and Clean Energy. The National Seminar Futura 2024 stands as tangible evidence of Unpad's active role in educating society and strengthening academic-industry collaboration to accelerate the transformation toward a sustainable energy future in Indonesia.



SDG 08

Decent Work and Economic Growth

8 DECENT WORK AND
ECONOMIC GROWTH



Research by Number (2020-2024)



Publication

422



Citation Impact

1.22



Citation Count

3,388



SDG 08 Decent Work and Economic Growth

8 DECENT WORK AND
ECONOMIC GROWTH



Strengthening Graduate Employability: Unpad’s Competency Certification Program Supports Decent Work Opportunities

Universitas Padjadjaran, through its Professional Certification Institute (Lembaga Sertifikasi Profesi/LSP Unpad), continues to promote the creation of decent work opportunities by strengthening the employability and professional readiness of its students. In collaboration with the Office Administration Professional Certification Institute (LSP Administrasi Perkantoran Nusantara / LSP AP-N), Unpad organized the Office Administration Management Competency Test on March 8–9, 2024, at the Jatinangor Campus. The program was attended by 400 participants, consisting of 320 Unpad students and 80 students from the Institute of Public Administration (IPDN).

According to Dr. Syariful Mubarak, S.P., M.Sc., Ph.D., Head of LSP Unpad, the activity began with a technical guidance session (Bimbingan Teknis) on March 7, 2024, to prepare participants for the assessment process. The competency test evaluated participants based on knowledge, skills, and attitude, through written and practical demonstrations. Supported by a grant, the certification program was conducted free of charge for students, ensuring accessibility and inclusivity in professional capacity building.

Through this initiative, Universitas Padjadjaran equips students with recognized professional certification to enhance their competitiveness in the job market, particularly in the field of office administration. The program aligns with Sustainable Development Goal (SDG) 8: Decent Work and Economic Growth, by enabling young professionals to access quality employment opportunities, promoting skill-based education, and fostering a work-ready generation capable of contributing to sustainable economic development.





Empowering Local Entrepreneurs: Unpad and Alfamart Foster Inclusive Economic Growth through UMKM Incubation Program

Universitas Padjadjaran, in collaboration with Alfamart, continues to strengthen its contribution to inclusive and sustainable economic development through the UMKM (Micro, Small, and Medium Enterprises) Incubation Program, launched on February 26, 2024. The program aims to empower 25 partner UMKM by helping them scale up their businesses through a structured two-month incubation and mentoring process facilitated by Unpad's business incubation center.

This initiative focuses on enhancing business management skills, digital marketing capabilities, and financial literacy for small entrepreneurs to improve their market competitiveness and sustainability. By integrating academic expertise with corporate support, the program bridges the gap between higher education and community-based economic empowerment, ensuring that participants can increase their business performance by 15–20% within the incubation period.

Through this partnership, Universitas Padjadjaran plays an active role in advancing Sustainable Development Goal (SDG) 8: Decent Work and Economic Growth, by promoting entrepreneurship, supporting small business resilience, and fostering innovation-driven growth. The Unpad–Alfamart collaboration represents a concrete step in driving local economic progress and creating a more inclusive economy that benefits both communities and future generations.

Strengthening Microenterprise Growth: Unpad and the Ministry of Finance Empower Ultra Micro Entrepreneurs through Training and Mentorship

Universitas Padjadjaran, through the Faculty of Agricultural Industrial Technology (FTIP), continues to play a vital role in fostering inclusive economic growth by collaborating with the Government Investment Center (Pusat Investasi Pemerintah – PIP) of the Ministry of Finance of the Republic of Indonesia. Together, they implemented the “Training of Trainers (ToT) Account Officer 2024” program, held on July 25, 2024, in Bandung. The program forms part of PIP’s initiative to amplify mentoring methods and strengthen the capacity of Ultra Micro (UMi) business actors across Indonesia.

Now in its third year, the program involves eight universities — including Universitas Padjadjaran, Universitas Syiah Kuala, Universitas Negeri Sebelas Maret, Universitas Hindu Indonesia, Universitas Brawijaya, Institut Teknologi Sepuluh Nopember, Politeknik Pertanian Payakumbuh, and Universitas Sam Ratulangi. The training consists of three phases: capacity building for university mentors, ToT sessions for account officers from partner cooperatives, and marketing enhancement through the establishment of Kedai UMi (UMi Business Hubs) in each region. According to Dr. Ir. Sarifah Nurhanah, M.App.Sc., Dean of FTIP Unpad, the program builds on Unpad’s long-standing experience in mentoring UMi entrepreneurs since 2020 — resulting in improved entrepreneurial mindsets, better product quality, and income growth between 15–300%.

This initiative reflects Unpad’s commitment to supporting Sustainable Development Goal (SDG) 8: Decent Work and Economic Growth by empowering small-scale entrepreneurs through structured training, research-based mentorship, and market access expansion. By collaborating with PIP and partners such as PNM, Pegadaian, and local cooperatives, Unpad contributes to strengthening Indonesia’s local economy, fostering innovation in the microenterprise sector, and advancing inclusive and sustainable economic development.



Empowering Local Entrepreneurs: Unpad's PSDKU Strengthens Pangandaran's UMKM through Pentahelix Collaboration



Universitas Padjadjaran, through its Off-Campus Study Program (PSDKU), plays an active role in promoting local economic growth and entrepreneurship development in Pangandaran Regency. In collaboration with the Indonesian Young Entrepreneurs Association (HIPMI) Pangandaran Branch, Unpad participated in the program “HIPMI Next Level! Pangandaran: SMEs One-on-One Mentoring by PUM Senior Expert Netherlands”, officially launched on January 31, 2024, at Pangandaran Creative Space. This initiative focuses on strengthening the capacity and competitiveness of micro, small, and medium enterprises (UMKM) through personalized mentoring and international collaboration.

The program, which involves 11 local UMKM, was supported by PUM Senior Experts Netherlands, a Dutch NGO providing professional mentorship for developing countries. Representing Unpad, Muhammad Rifqi Ismiraj, M.Sc., from PSDKU's Animal Husbandry Study Program, explained that this collaboration embodies the pentahelix model, involving academia, business, community, government, and media. Participants received tailored consultation sessions with PUM expert Leendert Noordermeer, former General Manager at Christian Dior Netherlands. The mentoring process included comprehensive business diagnostics, SWOT analysis, and the development of strategic recommendations to help UMKM enhance their operations, financial management, and market positioning.

The program concluded on February 6, 2024, with the signing of a Letter of Intent (LoI) between HIPMI Pangandaran, the Pangandaran Cooperative and MSME Office (Dinas KUMKM), PSDKU Unpad, BNI's Rumah BUMN Pangandaran, and the Pangandaran Journalists Association (PWI). The agreement outlined five collaborative initiatives: conducting research on the local UMKM sector, sharing data and insights, organizing training and workshops, facilitating market access through exhibitions and bazaars, and supporting funding through grants and sponsorships.

This partnership exemplifies Unpad's commitment to Sustainable Development Goal (SDG) 8: Decent Work and Economic Growth, by promoting innovation, entrepreneurship, and sustainable business growth at the regional level. Through this multi-stakeholder collaboration, Unpad contributes to empowering local entrepreneurs, fostering inclusive economic progress, and creating resilient community-based enterprises in Pangandaran.



SDG 09

Industry, Innovation and Infrastructure

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



Research by Number (2020-2024)



Publication

356



Citation Impact

0.98



Citation Count

2,780



SDG 09

Industry, Innovation and Infrastructure

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Revolutionizing Dental Care: Universitas Padjadjaran’s VR Hypnosis Innovation Shines at BIC 2024

Innovation has always been the driving force behind research at Universitas Padjadjaran. By fostering creativity and multidisciplinary collaboration, Unpad transforms groundbreaking ideas into solutions that address real-world challenges. A prime example of this vision is the Virtual Reality Dental Hypnosis (VRDH), introduced in 2024 to revolutionize dental care.

VRDH was designed to tackle three major challenges in dentistry: patient anxiety, sedative allergies, and communication barriers between dentists and patients. Led by Dr. drg. Gilang Yubiliana, M.Kes., CH-t, FISDPH, FISPD., this initiative combines hypnosis techniques with cutting-edge virtual reality technology to create a more comfortable, safe, and mentally supportive dental experience.

Equipped with a biofeedback console, VRDH monitors patients’ brainwaves in real time, allowing professionals to measure and manage anxiety during treatment. Its expert supervision module ensures safe and high-quality use under the guidance of qualified specialists, while its multi-application capability extends its benefits beyond dentistry to address various forms of anxiety, phobias, or trauma.

The innovation has earned recognition at the prestigious Business Innovation Center (BIC) 2024, standing out among 306 proposals and securing a spot among 80 finalists evaluated by industry leaders, academics, and top innovators. VRDH exemplifies how Unpad’s commitment to innovation translates research into transformative solutions that improve people’s lives.





Unpad Drives Innovation Through Strategic Industry Collaboration

In 2024, Universitas Padjadjaran (Unpad) strengthened its commitment to applied research by collaborating closely with industry and government. At the “Food, Innovation, and Innovation Appreciation Exhibition 2024” in Jatinangor, Unpad recognized outstanding innovations from its academic community, highlighting technological, social, and health solutions that address real-world challenges in the food sector.

Highlighted innovations include Noir Primadona Purba from the Faculty of Fisheries and Marine Sciences (technological innovation), Prof. Dr. Ganjar Kurnia, DEA. from the Center for Digitalization and Development of Sundanese Culture (social innovation), and Riezki Amalia, M.Si., Ph.D. from the Faculty of Pharmacy with the UPro Real Time PCR Porcine Detection Kit, which enables rapid detection of non-halal content in food and health products. These achievements demonstrate how Unpad translates research into practical solutions that benefit society.

Strategic industry partners played a key role in supporting these innovations, including PT Prodia Diagnostic Line (Proline), PT Cendo Pharmaceutical Industries, PT Kalbe Farma Tbk, PT Habbatussauda Internasional, PT Sains Inovasi Indonesia, PT Berdikari, PT Great Giant Pineapple, PT Biomol Nusantara Mandiri, PT Pustaka Jaya, PT Subur Indo Amerta, PT Bukit Asam, Japan Premium Vegetables, PT Pakar Biomedika Indonesia, and British Council. By leveraging these collaborations, Unpad ensures that its research is not only innovative but also impactful, creating solutions that advance industry, technology, and societal welfare in West Java.

Celebrating Unpad's Innovation Achievements in 2024

In 2024, Universitas Padjadjaran (Unpad) achieved remarkable success in research and product innovation, driven by its dedicated lecturers and laboratory staff. From the Faculty of Pharmacy, Dr. Riezki Amalia, S.Si., M.Si., Ph.D., developed the U-Pro Real Time PCR Porcine Detection Kit, a rapid detection tool for porcine compounds in food and health products. Produced in collaboration with PT Prodia Diagnostic Line (PROLINE), this innovation earned second place at the RINTEK Award 2024 by the Ministry of Industry, demonstrating how university-led research can be translated into industry-ready solutions.

In the Faculty of Medicine, Prof. dr. Bacht Alisjahbana, Sp.PD-KPTI., Ph.D., received the Habibie Prize 2024 for Talenta Unggul, recognizing his outstanding contributions to medicine and biotechnology and highlighting Unpad's global impact in research.

From the Faculty of Nursing, laboratory staff Tian Pradiani, in collaboration with ITB, created My Arm, a hand-shaped phantom simulator for arterial blood sampling training. Integrating microcontroller technology and real-time feedback, this innovation enhances practical skills for nursing students and earned second place in the Karya Inovasi Laboran 2024 competition. My Arm also received a Special Award from the Ministry of Health Malaysia during the ITEX 2024, highlighting its significant impact on healthcare training.

Additionally, Unpad's contributions in social innovation were recognized during the Unpad Awards 2024, with accolades in the Social Community Innovation category for programs that empower communities and address social challenges.

These achievements collectively demonstrate Unpad's commitment to fostering innovation across both technological and social domains, translating research into impactful products and solutions that benefit industry, society, and the wider community.



Empowering Student Innovation: Unpad and BRIN Inspire the Next Generation of Innovators

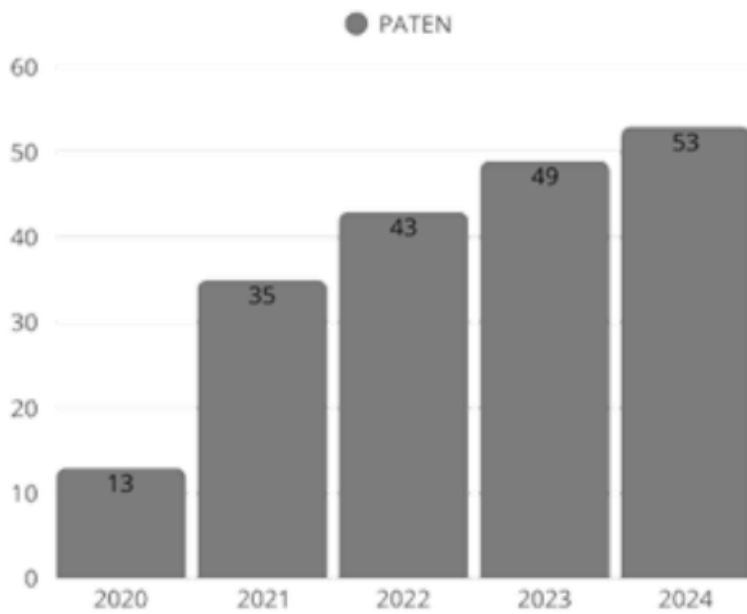


In July 2024, Universitas Padjadjaran (Unpad), in collaboration with the National Research and Innovation Agency (BRIN), hosted the inaugural “BRIN Goes to Campus: Unpad Creators & Innovators Expo 2024” with the theme “Research and Innovation for a Progressive Indonesia.” The event, held at Bale Sawala, Unpad Rectorate, Jatinangor, showcased innovative student projects and served as a platform for students to develop creative solutions to societal challenges. Rector Prof. Rina Indriastuti emphasized that student-led research and innovation are crucial for benefiting society and preparing the next generation to contribute to Indonesia Emas 2045, while BRIN Secretary-General Nur Tri Aries Suestiningtyas highlighted the importance of sustainable collaboration between universities, students, and innovators.

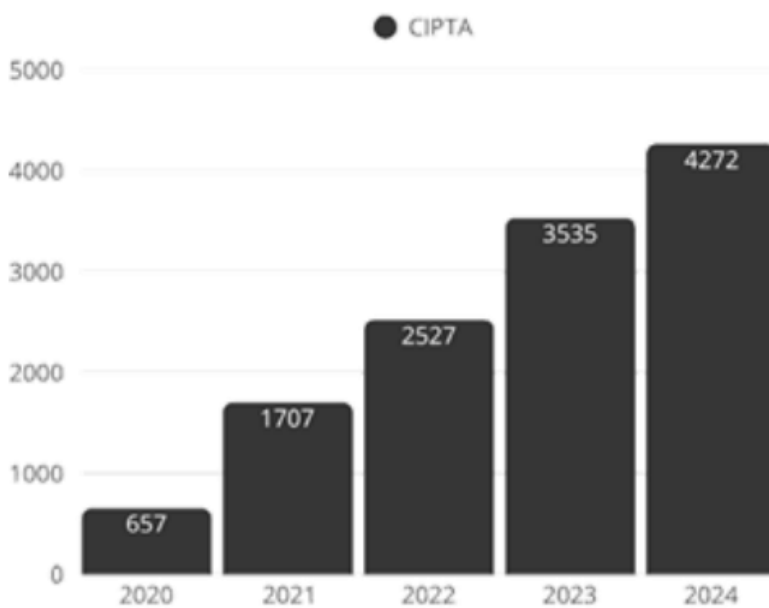
Through initiatives like the expo, Unpad demonstrates its commitment to fostering a culture of innovation and research excellence among students. By providing opportunities to explore, create, and apply knowledge and technology, Unpad ensures that student innovations not only advance scientific and technological capabilities but also generate meaningful solutions for the community and national development.

Development of Intellectual Property Rights Charts

Patent



Copyright







SDG 10

Reduced Inequalities

10 REDUCED INEQUALITIES



Research by Number (2020-2024)



Publication

183



Citation Impact

1.87



Citation Count

1,808



SDG 10 Reduced Inequalities



Breaking Barriers: Unpad Empowers All Students Through Inclusive Learning Hubs

In support of SDG 10 – Reduced Inequalities, Universitas Padjadjaran (Unpad) inaugurated the Disability Service Center, Assistive Learning Hub, and Telkom Digital Talent Corner at the Kandaga Building and Central Library in Jatinangor on Thursday, September 5, 2024. These facilities, developed in collaboration with Unpad, the British Council, and PT Telkom Indonesia, aim to ensure that higher education is accessible to students from all backgrounds, including students with disabilities and students from economically disadvantaged families.

Unpad Rector, Prof. Rina Indriastuti, stated that these facilities not only provide inclusive educational access but also support the development of high quality and internationally recognized human resources. “These facilities are designed to prepare young people, especially Unpad students including students with special needs, to transform into talents who will contribute to Indonesia’s development toward a Golden Indonesia,” said the Rector. By providing digital technology and assistive learning services, Unpad ensures that all students have equal opportunities to enhance their academic and digital skills.

With the inauguration of these facilities, Unpad reinforces its commitment to creating a higher education environment that is inclusive, high quality, and accessible to all, actively contributing to the reduction of social and educational inequalities in Indonesia. Students are encouraged to make full use of these facilities to improve competencies, broaden knowledge, and contribute to national development.





Raising Disability Awareness on Campus: Unpad Promotes Inclusive Higher Education

Promoting disability awareness and inclusion on campus is essential to reducing inequalities in education. On Thursday, September 5, 2024, Universitas Padjadjaran (Unpad) hosted a seminar titled “Inclusivity in Higher Education” at Bale Sawala, Unpad Rectorate Building, Jatinangor, to foster understanding and awareness of the challenges faced by students with disabilities.

Dr. Dante Rigmalia, M.Pd., Chair of the National Disability Commission of Indonesia, highlighted that only 5.12 percent of students with disabilities in Indonesia graduate from higher education, demonstrating the significant barriers they face. He emphasized that higher education not only empowers students to advocate for themselves but also strengthens their independence and career opportunities.

The seminar stressed the importance of establishing Disability Service Units at universities, which provide equal access to educational services, ensure respect for students’ rights, and create a supportive learning environment. Dr. Dante explained that inclusivity goes beyond admission; without proper support from the campus community, students with disabilities may face discrimination and limited growth.

Unpad’s initiative, including its Disability Service Center, serves as a concrete step toward creating a globally recognized, inclusive, and equitable higher education environment. The seminar also shared best practices for inclusive education in Indonesia and around the world, encouraging the campus community to increase awareness, provide support, and actively promote inclusivity for students with disabilities.

Empowering Students with Disabilities: Unpad's Inclusive Campus in Action

Aghniyya Haura Nuryaman, known as Anika, is a new student at Universitas Padjadjaran (Unpad) for the 2024/2025 academic year. As a student with hearing disability, she chose to pursue higher education in the Department of Social Welfare, Faculty of Social and Political Sciences through the National Selection Based on Test (SNBT).

Anika was inspired to study at Unpad not only by her mother, an alumna, but also by the university's disability-friendly environment. During orientation, she benefited greatly from Sign Language Interpreter and Disability Accommodation services, which helped her fully participate in campus activities.

Her story demonstrates Unpad's commitment to creating an inclusive and supportive campus, where students with disabilities can access quality education, pursue their aspirations, and prepare for future leadership or entrepreneurial roles. Anika hopes to one day build a school for all children, both hearing and deaf, reflecting the broader impact of inclusive education on society.



Unpad for All: Advancing Equal Access to Higher Education

Universitas Padjadjaran (Unpad) actively contributes to SDG 10: Reduced Inequalities by expanding fair and inclusive access to higher education. In the 2024/2025 academic year, Unpad launched several pro-equity policies within its new student admission process. Through its Independent Selection program, the university provides diverse admission pathways, including score-based selection, partnership schemes, and international classes. Importantly, Unpad facilitates a special examination for prospective students without UTBK scores, ensuring that applicants from all backgrounds, including holders of the KIP-Kuliah scholarship and students with disabilities, have equal opportunities to pursue higher education.

Further reinforcing this commitment, Unpad introduced four pro-equity programs in 2024 aimed at students from marginalized or underrepresented groups. These include scholarships for students with disabilities entering through national admission routes, invitations for high-achieving students from frontier, outermost, and underdeveloped regions (3T),

invitations for first-generation students whose families have never attended higher education, and opportunities for outstanding students from schools that have not yet been represented at Unpad. These initiatives not only acknowledge structural inequalities in access to higher education but also provide concrete pathways to bridge these gaps.

Additionally, Unpad emphasizes affordability and fairness by maintaining tuition fees (UKT) without any increase in 2024, while adopting a progressive scheme aligned with families' economic capacities. This decision reflects sensitivity to the economic recovery of Indonesian society after the pandemic and reinforces the principle that education should not be a privilege for the few, but a right accessible to all. Through these comprehensive measures, Unpad demonstrates its role as a higher education institution that actively works to reduce inequalities and foster inclusive, equitable growth in line with the vision of SDG 10.



The EmpowerID Initiative

In 2024, Universitas Padjadjaran (Unpad) strengthened its commitment to **SDG 10: Reduced Inequalities** by launching the *Enhancing Disability-Inclusive Education in Indonesian Universities (EmpowerID)* program in collaboration with Glasgow Caledonian University (GCU). This initiative aims to build a more accessible and supportive academic environment for students with disabilities, ensuring equal opportunities to learn, participate, and succeed in higher education.



As part of EmpowerID, Unpad welcomed two academic staff members from GCU in April 2024 for a series of workshops and knowledge-sharing sessions. These involved key stakeholders, including the Disability Services Task Force, students with disabilities, learning support offices, and academic program leaders. The collaboration focused on capacity building, exposure to best practices, and designing strategies for a permanent Disability Support Unit at Unpad. Areas of development include the integration of assistive technologies, academic and social support programs, staff and student training on disability awareness, and the promotion of inclusive values across the campus community.

This initiative reflects Unpad's belief that university excellence is not only measured by academic achievements but also by the inclusiveness of its learning environment. EmpowerID embodies Unpad's progressive vision to empower students with disabilities by guaranteeing equal access to education, career opportunities, healthcare, and active participation in society. By embedding accessibility and respect into its institutional culture, Unpad demonstrates leadership in reducing inequalities and advancing the goals of **SDG 10** within higher education.





SDG 11

Sustainable Cities and Communities

11 SUSTAINABLE CITIES AND COMMUNITIES



Research by Number (2020-2024)



Publication

255



Citation Impact

1.97



Citation Count

2,070



SDG 11 Sustainable Cities and Communities

11 SUSTAINABLE CITIES
AND COMMUNITIES



Unpad Bergerak: Fostering Sustainable and Inclusive Campus Communities

In 2024, Universitas Padjadjaran (Unpad) reinforced its commitment to SDG 11: Sustainable Cities and Communities through the *Unpad Bergerak* program, held as part of the university's 67th Dies Natalis celebrations. Officially inaugurated by Rector Prof. Rina Indriastuti, the program engaged faculty, staff, students, and university partners in activities promoting health, collaboration, and community spirit. By bringing together the campus community in a shared, participatory setting, *Unpad Bergerak* supports a safe, inclusive, and vibrant environment that enhances well-being and social cohesion.

The program featured sports competitions, cultural performances, and collaborative challenges involving various faculties, units, alumni, and external partners. These activities fostered healthy lifestyles, strengthened interpersonal connections, and encouraged engagement within the campus community. By integrating recreational, cultural, and social dimensions, Unpad promotes sustainable practices in campus life, aligning with SDG 11's goals of inclusive, participatory, and resilient communities.

Initiatives like *Unpad Bergerak* illustrate that a sustainable campus extends beyond physical infrastructure. By emphasizing social sustainability, inclusivity, and collective well-being, Unpad cultivates a culture of cooperation and mutual respect, ensuring that its campus community thrives as a model of an inclusive and sustainable educational environment.



Unpad Wellness 2024



As part of its commitment to creating an inclusive, healthy, resilient, and sustainable campus community, Universitas Padjadjaran continued the implementation of the Unpad Wellness Program 2024. This integrated initiative, which has been running since 2021, aims to promote physical, mental, and social well-being among all members of the university community. The “Kick-Off Unpad Wellness Program 2024” was held at the Rectorate Building Plaza, Jatinangor, on June 28, 2024. The program goes beyond improving individual health; it strengthens the role of the campus community in creating a supportive and healthy living environment.

Carrying the theme “Agents of Change,” 100 participants consisting of university leaders, faculty leaders, lecturers, and administrative staff took part in a three-month mentoring program. Each participant was encouraged to invite five other individuals to join, creating a ripple effect that fosters a culture of health and well-being across the campus.

This approach not only expands the program’s reach but also builds a community of individuals who support each other in adopting healthier lifestyles. Through this strategy, Unpad integrates health promotion into daily campus life as part of building a sustainable and resilient community.

The success indicators of the program are measured through tangible improvements among participants, such as reduced waist circumference, lower blood pressure and cholesterol levels, and increased fitness and mental well-being indexes. The Unpad Wellness Program emphasizes that well-being is an integral part of academic productivity. By nurturing a healthy and thriving campus community, Universitas Padjadjaran actively contributes to the realization of SDG 11: Sustainable Cities and Communities, which focuses on creating inclusive, resilient communities that support better quality of life for all.

Bridging Cultures: International Student Performances at Unpad Nyeni



In 2024, Universitas Padjadjaran (Unpad) celebrated its 67th Dies Natalis by hosting *Unpad Nyeni*, a three-day cultural and wellness program that emphasized global engagement and inclusive campus life. A central feature of the event was the International Day, which showcased performances and cultural presentations by students from 16 countries, including China, Germany, Tanzania, Japan, Korea, and Timor Leste. These international students shared their traditional music, dance, and culinary heritage, providing a unique platform for intercultural exchange and learning.

The International Day performances fostered a sense of community, inclusivity, and mutual respect among local and international participants. By actively engaging with the broader campus community, international students contributed to creating a culturally vibrant and socially cohesive environment, reflecting Unpad’s commitment to SDG 11: Sustainable Cities and Communities. Their involvement also supports SDG 4: Quality Education, by promoting global awareness, diversity, and equitable participation in university life.

Through activities like International Day, Unpad demonstrates how integrating cultural diversity and student engagement into campus programs strengthens social cohesion, promotes well-being, and positions the university as an inclusive and globally connected learning community. These initiatives highlight the university’s proactive role in cultivating a sustainable, inclusive, and culturally enriched campus environment.



Preserving Sundanese Heritage through Digital Innovation

As part of its commitment to SDG 11: Sustainable Cities and Communities, Universitas Padjadjaran, through the *Pusat Digitalisasi dan Pengembangan Budaya Sunda (PDPBS)*, has been actively engaged in preserving and revitalizing Sundanese cultural heritage. Recognizing the urgent risk of losing valuable archives, ranging from historical newspapers, books, and manuscripts to audio-visual materials, Unpad has undertaken large-scale efforts to digitize cultural assets and safeguard them for future generations. To date, PDPBS has digitized more than one million pages of cultural materials, building a comprehensive digital repository that supports education, research, and community access.

Beyond preservation, Unpad has leveraged technology to enhance accessibility of Sundanese culture through the launch of *Sundadigi*, a web and mobile-based application.

This platform offers interactive features such as digital dictionaries, grammar tools, cultural courses, e-magazines, and even practical language learning modules. Since its launch in September 2023, the platform has reached over 32,000 visitors, making cultural knowledge more inclusive and widely available.

Through these initiatives, Universitas Padjadjaran not only protects cultural identity but also integrates it into modern education and community development. By digitizing and disseminating Sundanese heritage, Unpad demonstrates how universities can bridge tradition and innovation, fostering sustainable cultural communities while contributing to Indonesia's broader agenda of cultural advancement and inclusivity.





Building Sustainable Communities Through Open and Inclusive Campus Spaces

As a higher education institution, Universitas Padjadjaran plays a strategic role in supporting the realization of sustainable communities. Sustainable communities encompass societies that are able to live in harmony with their environment, remain resilient to change, and actively participate in maintaining social and ecological sustainability. Within the campus context, this concept is implemented through various educational programs, collaborations, and campus space management initiatives that foster social interaction and environmental preservation. Unpad functions not only as an academic center but also as an integral part of an open and interconnected community system.

One tangible manifestation of this commitment is the provision and utilization of open spaces, such as the Unpad Arboretum, which serves as an educational and conservation green space for students, school learners, and the general public. The arboretum functions as an open-air laboratory that can be used for learning activities, research, and environmental exploration.

By opening this space to the public, Unpad creates an inclusive area for interaction and community activities, allowing the campus's open spaces to serve not merely as physical elements but also as mediums for building ecological awareness and strengthening community networks.

Through the integration of sustainable community concepts and the use of open spaces, Universitas Padjadjaran has successfully built a mutually reinforcing relationship between the campus and the surrounding community. Environmental education activities, plant conservation efforts, and collaborations with schools and local communities illustrate how open spaces can serve as effective platforms for cultivating shared awareness of sustainability. This initiative aligns with the principles of SDG 11: Sustainable Cities and Communities, where the university actively contributes to creating an inclusive, safe, resilient, and sustainable environment for all communities.



Enhancing Campus Mobility: Unpad Adds Two New Shuttle Units

As part of its commitment to creating an inclusive, safe, resilient, and sustainable community, Universitas Padjadjaran continues to prioritize the availability of reliable transportation facilities within the campus. The campus transportation system not only serves as a mobility solution for students and staff but also plays a strategic role in building a connected, comfortable, and environmentally friendly campus environment. By providing accessible and sustainable transportation options, Unpad contributes to reducing dependence on private vehicles and supports more efficient and eco-conscious mobility patterns.

At the beginning of 2024, Universitas Padjadjaran added two new campus shuttles to expand its internal transportation services. These additional shuttles serve a newly opened central route, which connects key academic areas and supports the daily learning activities of students and the academic community. This initiative reflects Unpad's commitment to enhancing mobility accessibility and comfort for the entire campus community. With this route expansion, transportation within the campus is expected to become more structured, inclusive, and supportive of students' learning experiences.

In addition to campus shuttles, Unpad also introduced Beam electric bicycles as an environmentally friendly transportation alternative. These e-bikes offer flexible and efficient mobility options while contributing to carbon emission reduction on campus. Through the integration of shuttle services and electric bicycles, Universitas Padjadjaran strengthens its role in advancing the principles of SDG 11: Sustainable Cities and Communities by creating a sustainable, inclusive, and accessible campus transportation ecosystem for all.





SDG 12

Responsible Consumption and Production

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



Research by Number (2020-2024)



Publication

326



Citation Impact

0.94



Citation Count

2,515



SDG 12 Responsible Consumption and Production



Promoting Responsible Consumption Through River Clean-Up Initiatives

In commemoration of World Water Day, the Student Association of Fisheries, Faculty of Fisheries and Marine Sciences, Universitas Padjadjaran organized an environmental initiative called the Sustainable Waters Program (Properi) on March 23, 2024, at the Cikapundung River area, Braga, Bandung City. This activity represents a concrete effort by students to address environmental pollution, particularly plastic waste, which has become one of the major challenges in water resource management. Through this initiative, students actively contribute to raising public awareness of the importance of protecting aquatic ecosystems.

The Properi program was carried out through a collaboration between Himikan Unpad and the Trash Ranger community. The “Clean Our River” activity was participated in by 30 students and volunteers. Participants were equipped with gloves and garbage bags to clean the river directly. In addition, they received educational materials from Trash Ranger volunteers on the importance of plastic waste sorting and management, including how to turn plastic waste into eco-bricks, a simple innovation to support responsible and sustainable waste management practices.

Through this action, Unpad students made a tangible contribution to the implementation of SDG 12: Responsible Consumption and Production, by promoting responsible consumption and production behavior through community-based waste management. The Properi activity not only had a direct impact on improving river cleanliness but also strengthened collective awareness among students and the community regarding the importance of reducing plastic waste at its source. This initiative reflects the active role of the university community in supporting sustainable production and consumption patterns at the local level.





In addition to the river clean-up, another environmental action was carried out earlier in the year by a group of Universitas Padjadjaran students participating in the “Lepidochelys” Community Service Program (KKN). On January 27, 2024, they held a Coastal Clean Up (CCU) activity at Batu Hiu Beach, Ciliang Village, Parigi, Pangandaran Regency. Guided by Dr. Titin Herawati, Chair of the Master’s Program in Marine Conservation at the Faculty of Fisheries and Marine Sciences, this activity focused on socialization and education regarding sea turtle conservation and its relationship to environmental carrying capacity. Batu Hiu Beach is a nesting and breeding site for sea turtles and one of Pangandaran’s key ecotourism areas, making beach cleanliness a critical factor for conservation and tourism sustainability.

The CCU activity was attended by various groups, including Unpad students from KKN 55 “Lepidochelys,” KKN 50 Parigi, KKN 64 Batu Karas, Master’s in Marine Conservation students, students from the Marine Tourism Study Program, and external stakeholders such as the Raksa Bintana Foundation (NGO), local tourism awareness groups, Pandu Laut, Ciliang Village Waste Bank, the Water and Air Police Corps, and tourists. The collected waste was sorted into organic and inorganic categories. Organic waste consisted of leaves, branches, wood, and coconut shells, while inorganic waste included plastic wrappers, nets, ropes, cloth, styrofoam, glass, sandals, and baby diapers. Plastic waste, especially snack wrappers, bottles, and straws, dominated the inorganic category. Inorganic waste was sent to the Ciliang Village Waste Bank for recycling, while organic and residual waste was taken to the temporary waste storage facility (TPS).

Turning Waste into Value: Unpad's Student Innovation for Sustainable Production

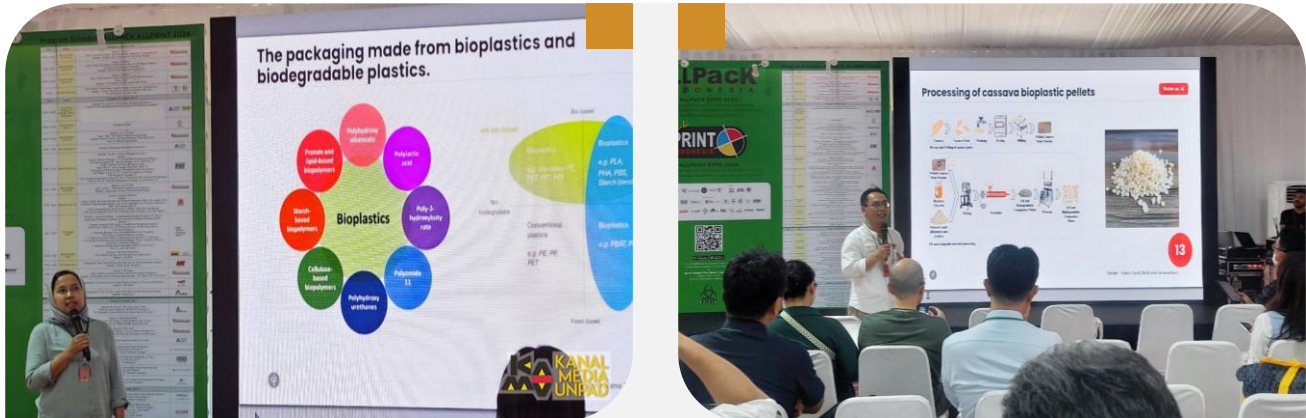
A group of Universitas Padjadjaran students has turned an unconventional raw material into an innovative and sustainable product. Known for its distinctive odor, jengkol (dogfruit) is commonly discarded after use. However, five Unpad students, Hauzan Shidqy Rabbani (Digital Business), Ayesha Nadia Savitri (Pharmacy), Riyandi Arif Budiman (Agrotechnology), Ikhsan Muhammad Fajar (Government Science), and Ockta Alfared Sijabat (Management), with the guidance of Dr. Budi Irawan, M.Si., successfully developed "ArchiCare 2in1 Face and Body Wash," an organic soap made from jengkol peel waste. This innovation was part of the Student Creativity Program for Entrepreneurship (PKM K) and received funding from the Ministry of Education, Culture, Research, and Technology in 2024.



The idea emerged from the team's awareness of the untapped economic value of jengkol peel waste. Scientifically, jengkol peel contains tannins and flavonoids with antibacterial properties. By utilizing these natural compounds, the team formulated a dual purpose soap for facial and body cleansing. ArchiCare is classified as an organic soap because it uses natural, environmentally friendly ingredients such as beeswax, jengkol peel extract, olive oil, coconut oil, and palm oil. The product offers moisturizing benefits and is suitable for sensitive skin, providing an eco friendly alternative to conventional chemical based soaps.

Beyond the use of organic ingredients, the team also ensured sustainable packaging by using recyclable materials to avoid generating new waste. This initiative reflects student innovation and entrepreneurship in applying circular economy principles, where waste is transformed into value added products. By creating ArchiCare, Unpad students actively contribute to the realization of SDG 12: Responsible Consumption and Production, particularly through waste utilization, eco friendly product design, and sustainable business development. This project also illustrates how higher education can drive environmentally conscious innovation that benefits both the economy and the environment.

From Research to Industry: Unpad's Contribution to Sustainable Packaging Solutions



Finder Universitas Padjadjaran has shown a strong commitment to advancing sustainable production by introducing innovative powder processing and biodegradable film technologies as practical solutions to environmental challenges in the modern packaging industry. This initiative was presented during the talk session “Indonesia is Ready: Understanding Powder Processing for Various Sustainable Packaging Industries and Insights into Realistic Business Models,” held as part of ALLPACK Indonesia 2024, one of Southeast Asia’s largest annual platforms for innovation and collaboration in packaging and processing. The event brought together more than 35,000 visitors and exhibitors from over 25 countries, providing an international stage for Finder Unpad to showcase its research-based technological innovations.

During the session, Prof. Dr. Eng. I Made Joni, Chair of Finder Unpad, explained that powder processing technology offers an effective solution for developing environmentally friendly and efficient packaging products. This technology involves selecting raw materials such as starch, cellulose, and vegetable oils, followed by drying, milling, and mixing with catalysts and stabilizers to ensure the quality of the final product. The formation process uses methods such as melt intercalation and solution casting to create biodegradable plastic films that naturally decompose. This approach allows for more efficient material use, reduced waste generation, and the production of stronger, longer-lasting, and cost-effective packaging. The bioplastics produced through this method have undergone strict absorption and degradation tests, making them ready to compete in global markets as sustainable packaging alternatives.

In addition, Prof. Dr. Eng. Camellia Panatarani highlighted the potential of biodegradable film technology derived from Indonesia’s abundant natural resources, such as cassava. Through drying, grinding, and mixing natural starch and cellulose with catalysts and stabilizers, followed by film-forming methods, the resulting biodegradable films offer an eco-friendly and economically viable packaging solution. This innovation has also passed a series of quality tests to ensure its performance in various packaging applications. Meanwhile, Willy D. Liusan, CEO of Baiyo, introduced Baiyo-degradable plastic, developed through collaboration with Finder Unpad. Unlike conventional plastics that take centuries to decompose, Baiyo-degradable plastic is designed to break down more quickly, responding to the growing global demand for sustainable packaging materials. Their joint presentation emphasized how collaborative innovation between research institutions and industry can accelerate the adoption of sustainable products at scale.

The collaboration between Finder Unpad and Baiyo at ALLPACK Indonesia 2024 illustrates how research-based technological innovation can drive the packaging industry toward a more sustainable future. By focusing on product development that minimizes resource use and reduces plastic waste, these innovations support the achievement of SDG 12: Responsible Consumption and Production, particularly in promoting sustainable production methods within the packaging sector. Through partnerships and knowledge exchange, Finder Unpad positions itself as a key contributor in bridging academia and industry to produce globally competitive yet environmentally responsible products.

Padjadjaran Green Innovation Summit (PGIS) 2024



Universitas Padjadjaran, through its Student Executive Board Department of Environment, demonstrated its commitment to promoting environmental awareness and innovation by organizing the Padjadjaran Green Innovation Summit (PGIS) 2024. The event took place on October 30, 2024, at Bale Santika, Jatinangor Campus, with the aim of encouraging students to develop creative ideas related to waste management and broader environmental issues. PGIS 2024 served as a platform to connect students with businesses and industries, opening opportunities for their innovative ideas to be implemented on a larger scale and generate real impact. By doing so, PGIS not only became a forum for new ideas but also positioned young people as active contributors in addressing urgent issues such as waste management and the climate crisis.



During the event, speakers emphasized the importance of raising environmental awareness from an early age, particularly in waste sorting and responsible waste disposal. Dr. Eng. Boy Yoseph Cahya Sunan Sakti Syah Alam, Director of Student Affairs and Alumni Relations at Unpad, highlighted the increasing complexity of waste problems, including the threat of microplastics entering the food chain. He stressed that waste issues must be addressed through sustainable solutions and collective action. Meanwhile, representatives from the Ministry of Environment and Forestry of the Republic of Indonesia encouraged a paradigm shift in waste management from “collect, transport, and dispose” to “limit, avoid, and reduce,” while emphasizing the need to adopt the 3R principles: Reduce, Reuse, Recycle, as a shared responsibility. They also addressed how the triple planetary crisis, which includes climate change, biodiversity loss, and pollution, can be tackled through circular economy approaches in waste management.

PGIS 2024 featured a talk show and discussions with various stakeholders, including academics, industry representatives, NGOs, and government officials. These sessions provided students with knowledge, perspectives, and networking opportunities to transform their ideas into practical and sustainable solutions. Through PGIS, Unpad strengthened student awareness, engagement, and leadership in promoting responsible consumption and production practices, in line with SDG 12. The event showcased how higher education institutions can empower students to become agents of change, driving innovation in sustainable waste management and supporting the development of a circular economy in Indonesia.



SDG 13

Climate Action

13 CLIMATE
ACTION



Research by Number (2020-2024)



Publication

175



Citation Impact

2.29



Citation Count

2,012



SDG 13 Climate Action

13 CLIMATE ACTION



Support for Earthquake Disaster Recovery in Sumedang



In line with SDG 13 – Climate Action, Universitas Padjadjaran (Unpad) demonstrated its commitment to disaster response, community resilience, and climate adaptation through a series of integrated actions following the earthquakes that struck Sumedang Regency on 31 December 2023 and 1 January 2024.

These earthquakes were unprecedented for the region, which had historically faced floods and landslides rather than seismic events. Several areas, including Tanjungmedar, Kotakulon, Margamekar, Sukajaya, Citengah, and Sumedang Utara, were affected, prompting the need for immediate humanitarian support and long-term recovery strategies.

In response, Unpad, through its Disaster Research Center, launched the “Unpad Peduli Sumedang Donation Program”, inviting students, faculty, alumni, and the wider community to contribute. Donations were accepted both in monetary and non-monetary forms to support recovery needs. According to Dr. Yoga Andriana Sendjaja, Head of the Disaster Research Center, the initiative was part of Unpad’s rapid response to local disasters, emphasizing the university’s identity as part of the Sumedang community. Unpad also prepared disaster response volunteers to assist in the recovery phase when needed.


Furthermore, Unpad conducted earthquake disaster mitigation education and awareness sessions for local communities to reduce trauma and build preparedness for potential future seismic events. This educational component was critical, given that Sumedang had rarely experienced significant earthquakes in the past, highlighting the importance of building community literacy and resilience.

To support recovery efforts, Unpad also donated IDR 250 million to the Sumedang Regency Government. The donation, collected from the Unpad community, was handed over by Rector Prof. Rina Indriastuti to Acting Regent Herman Suryatman on 3 January 2024. The local government expressed deep appreciation, recognizing Unpad as the first higher education institution to provide official post-disaster assistance.

The Acting Regent also emphasized that this event would lead to a redesign of the regional long-term development plan (RPJPD), integrating earthquake mitigation strategies over the next 20 years. Unpad is expected to provide scientific and technical expertise to ensure the regional plan reflects climate resilience and sustainable development principles.

From Rescue to Recovery: Unpad's Real Action for Climate-Driven Disasters





Universitas Padjadjaran, through its SAR Unit and the Padjadjaran Rescue Communication Forum (FKPR), demonstrated a strong contribution to SDG 13 (Climate Action) by carrying out rapid response actions to two major natural disasters in West Java in 2024: flash floods and landslides in Bandung Barat Regency and floods and landslides in Sukabumi Regency.

In March 2024, FKPR teams consisting of students and members of Unpad’s SAR Unit participated in search and rescue (SAR) operations in Kampung Gintung, Cipongkor, following flash floods and landslides that destroyed 25 houses, caused fatalities, and displaced hundreds of residents. The team worked alongside more than 500 volunteers from various agencies to search for victims, support administrative and emergency school operations, and secure the disaster area. During the operation, three victims were found, while search activities continued until all victims were identified.

In December 2024, the Unpad SAR Unit, in collaboration with the Disaster Research Center (PRK) and FKPR, responded to severe flooding and landslides in Sukabumi. After conducting SAR operations from 4–6 December, the team distributed 100 packages of food aid to affected communities in Loji Village and Cipatuguran Hamlet, which had been isolated due to landslides. This action helped meet the urgent needs of affected residents while supporting the early stages of infrastructure recovery.

Through these two initiatives, Unpad demonstrated its strategic role in rapid disaster response, cross-sector collaboration, and student capacity building to address climate-related disasters. These actions reflect the university’s tangible contribution to SDG 13 targets, particularly in strengthening community resilience to climate risks and natural hazards.

Climate Change Seminar, Symposium, and Workshop titled “Active Multi-Stakeholder Participation in Achieving Enhanced Nationally Determined Contribution (NDC)”



Universitas Padjadjaran demonstrated its strong commitment to SDG 13 (Climate Action) by organizing a Climate Change Seminar, Symposium, and Workshop titled “Active Multi-Stakeholder Participation in Achieving Enhanced Nationally Determined Contribution (NDC)” on 22 July 2024 at Bale Sawala, Rectorate Building, Jatinangor. The event was held in collaboration with IPB University and the Ministry of Environment and Forestry (KLHK) of the Republic of Indonesia. It brought together various stakeholders, including representatives from government institutions, climate experts, academics, and practitioners, to foster cross-sector collaboration in addressing climate change challenges in Indonesia.

In her opening remarks, Unpad Rector Prof. Rina Indrastuti emphasized that climate change is a multidimensional issue, impacting not only the environment but also the economic, social, and development sectors. She highlighted the crucial role of universities not only as research centers but also as strategic actors capable of translating scientific findings into practical and collaborative actions. This vision aligns with Unpad’s core scientific pattern, “Bina Mulia Hukum dan Lingkungan Hidup dalam Pembangunan Nasional” (Noble Development of Law and Environment in National Development), which positions the university at the forefront of sustainable development efforts in Indonesia.

The seminar featured prominent speakers, including Ir. Ary Sudijanto (Head of the Environmental and Forestry Instrument Standardization Agency, KLHK RI), Prof. Rizaldi Boer (Executive Director of CCROM – SEAP IPB University), Yulia Suryani, M.Sc. (Director of Mitigation, KLHK), and H.E. Tri Tharyat, LL.M. (Director General for Multilateral Cooperation, Ministry of Foreign Affairs), who delivered his presentation online. In his address, Ary Sudijanto highlighted the triple planetary crisis currently faced by the world: climate change, pollution, and biodiversity loss. He stressed that climate change has triggered extreme events such as floods, droughts, heatwaves, and wildfires, underscoring the urgency of cross-sectoral collaboration and research innovation to develop long-term solutions.

Through this event, Unpad positioned itself as a facilitator of scientific dialogue and a catalyst for national collaboration, providing a platform for knowledge exchange, perspective building, and strengthening joint commitments to support Indonesia’s Enhanced NDC targets. The seminar also encouraged universities to play a more active role in research, innovation, and climate policy advocacy. By doing so, Unpad contributes not only to the advancement of knowledge but also to the implementation of impactful climate action at the national level.

Building Capacity and Rapid Response: Unpad's Landslide Disaster Simulation



The Faculty of Nursing at Universitas Padjadjaran demonstrated its contribution to SDG 13 (Climate Action) by organizing a Disaster Simulation (SIBEN) activity on Sunday, 10 November 2024, at Lapangan Merah, Universitas Padjadjaran, Jatinangor. The simulation focused on landslides, one of the most frequent natural disasters in Indonesia, aiming to strengthen disaster preparedness among students, the campus community, and various stakeholders.

All 2021 cohort nursing students participated actively, taking on critical roles such as commanders, Rapid Humanitarian Assistance (RHA) teams, logistics teams, evacuation teams, medical response teams, triage teams, post command officers, triage booth officers, and disaster victims. The simulation covered essential stages of disaster response, including rescue operations, initial treatment of victims, and post-disaster recovery. The Head of the Sumedang Regional Disaster Management Agency (BPBD), Drs. Atang Sutarno, M.Si., highlighted the importance of preparedness training like this, especially for students as the next generation who may become key responders in future disaster situations.

SIBEN 2024 also exemplified cross-sector collaboration in disaster response. The Faculty of Nursing worked closely with the Sumedang BPBD, Babinsa, the Jatinangor Police, and local media to ensure effective coordination during the simulation. The activity contributes to achieving SDG 13 targets by integrating disaster education, evacuation training, first aid response, and strengthening campus community capacity for disaster mitigation. It also provides students with practical experience in emergency response while building stronger partnerships between the university and external stakeholders.

Unpad Leads the Way in Renewable Energy with New Solar Power Plant



Universitas Padjadjaran (Unpad) demonstrated a concrete commitment to SDG 13 (Climate Action) by inaugurating a Solar Power Plant (PLTS) at its Jatinangor Campus on 4 October 2024, in collaboration with PT Empat Mitra Indika Tenaga Surya (EMITS). This initiative is part of Unpad's broader sustainability efforts, aligned with its Core Scientific Pattern (Pola Ilmiah Pokok): *"Bina Mulia Hukum dan Lingkungan Hidup dalam Pembangunan Nasional"* (Noble Development of Law and Environment in National Development).

Unpad Rector, Prof. Rina Indriastuti, emphasized that the implementation of the solar power system represents the university's consistent innovation in promoting environmental sustainability. Unpad is committed to becoming a leader in environmental preservation through the use of clean and renewable energy, contributing directly to carbon emission reduction and ecosystem protection. "Unpad consistently strives to be at the forefront of environmental stewardship, including through the use of clean energy (PLTS)," she stated.

Vice Rector for Research and Innovation, Prof. Hendarmawan, explained that the solar power plant is a concrete example of green energy implementation within the campus and a tangible step toward reducing carbon emissions. With this facility, Unpad aims to serve as a model for other higher education institutions in transitioning to renewable energy sources.

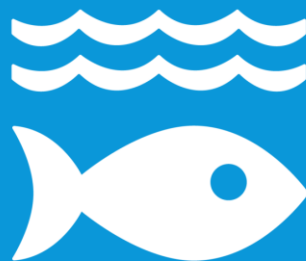
Yovie Priadi, President Director of PT EMITS, expressed his appreciation for the collaboration and highlighted the significant potential for further solar energy development within the campus area. This partnership not only supports Unpad's vision as an Eco Campus but also strengthens the role of universities as agents of change in sustainable energy adoption.



SDG 14

Life Below Water

14 LIFE BELOW WATER



Research by Number (2020-2024)



Publication

198



Citation Impact

0.82



Citation Count

1,235



SDG 14 Life Below Water



Unpad Revives Jatigede Reservoir’s Ecosystem Through 100,000 Nilem Fish Restocking

The “Karamba” Student Activity Unit of the Faculty of Fisheries and Marine Sciences, Universitas Padjadjaran (FPIK Unpad), contributed to SDG 14 (Life Below Water) through a fish restocking activity held at Jatigede Reservoir, Sumedang, on Sunday, 12 May 2024. Jatigede Reservoir is an important freshwater ecosystem in West Java and home to various native fish species, including tawes, nilem, and lalawak. However, overfishing in recent years has significantly reduced fish populations, making restocking efforts essential to restore ecological balance and support biodiversity.

In this activity, UKMF Karamba collaborated with Sukamenak Village authorities, the West Java Provincial Department of Marine Affairs and Fisheries, and the Southern Regional Fisheries Office to release 100,000 nilem fish (*Osteochilus hasselti*) fingerlings into the reservoir. Nilem fish were chosen because they are endemic to Indonesia, particularly West Java, and have been cultivated in Jatigede since 2015. Before release, the fingerlings underwent acclimatization to minimize stress and improve their adaptation to the natural environment. The restocking was conducted at three strategic points located in the center of the reservoir.

According to FPIK Unpad lecturer Irfan Zidni, Ph.D., this initiative not only aims to sustain fish populations and preserve aquatic ecosystems but also serves as a community engagement effort, strengthening ties between Unpad students and local communities around Jatigede Reservoir. By increasing fish stocks, the activity is also expected to provide economic benefits for local communities, particularly fishers in Sukamenak Village.

Through this fish restocking initiative, Unpad has made a tangible contribution to SDG 14, particularly in the conservation of inland aquatic ecosystems, the protection of local biodiversity, and the promotion of sustainable fisheries management practices through collaboration between the university, government agencies, and local communities.



Mangrove Conservation to Protect Coastal Ecosystems



Mangrove ecosystems play a vital role in supporting coastal and marine biodiversity. They serve as natural nurseries for various marine species, providing essential breeding grounds, shelter, and food sources for juvenile fish and other organisms. In addition, mangrove forests help stabilize coastlines, reduce erosion, absorb carbon dioxide, and produce oxygen, making them essential for both marine life and climate resilience.

In 2024, Universitas Padjadjaran actively contributed to coastal conservation through student-led mangrove planting initiatives in Mayangan, West Java.

On May 7, 2024, students from the Environmental Department of BEM Kema Unpad visited the Mayangan mangrove conservation site following a discussion with the West Java Climate Task Force (WJCTF). During this visit, they adopted and planted 12 mangrove trees, specifically *Rhizophora apiculata* and *Rhizophora stylosa*, as part of their commitment to environmental stewardship. This activity reflects their vision to become initiators and frontliners in addressing climate and environmental crises through sustainable and tangible actions. Their involvement also aimed to inspire other Unpad students and those from different universities to participate in mangrove conservation activities.

Continuing this momentum, on November 28, 2024, the American Association of Petroleum Geologists Universitas Padjadjaran Student Chapter (AAPG Unpad SC) held a mangrove planting activity to commemorate National Tree Planting Day. The group adopted and planted 70 mangrove trees, with 45 participants actively involved. This event was part of the Wali Mangrove Legon Kulon Program, a collaborative initiative between WJCTF and Yayasan Wanadri aimed at strengthening mangrove conservation in West Java.

These initiatives significantly contribute to SDG 14 (Life Below Water) by restoring and protecting mangrove ecosystems, which are critical for maintaining marine biodiversity, supporting sustainable fisheries, and enhancing coastal resilience against the impacts of climate change. Through these actions, Unpad students demonstrate strong environmental leadership and collaborative engagement in preserving Indonesia's coastal ecosystems.

Transforming Riverbanks: Unpad Launches Leuwi Padjadjaran Ecoriparian for Sustainable Water Ecosystems



Universitas Padjadjaran strengthened its commitment to SDG 14 (Life Below Water) through the inauguration of the Leuwi Padjadjaran Ecoriparian Area at its Jatinangor Campus on Tuesday, 9 July 2024. The area was officially inaugurated by Ir. Sigit Reliantoro, M.Sc., Director General of Pollution and Environmental Damage Control of the Indonesian Ministry of Environment and Forestry (KLHK), through the signing of an inscription, followed by the signing of the official handover document and a Cooperation Agreement between KLHK and Unpad, represented by Unpad’s Vice Rector for Research and Innovation, Prof. Dr. Ir. Hendarmawan, M.Sc.

The development of the ecoriparian area is part of a broader initiative to restore and sustainably manage river ecosystems, transforming riverbanks into clean, attractive, and functional public spaces. The ecoriparian concept emphasizes community-based management, where local communities play an active role in maintaining and utilizing the area. Beyond improving the environmental quality of the river, this space also serves as a platform for environmental education and a driver of the local economy, creating multiple benefits for surrounding communities.

Director General Ir. Sigit Reliantoro highlighted that the ecoriparian approach aims to shift the community’s perception of rivers from “backyards” to “front yards”—vibrant, functional, and integral parts of daily life. This initiative encourages communities to view rivers not as dumping grounds but as living spaces that are sustainable, productive, and environmentally valuable, thereby fostering greater awareness of the importance of protecting aquatic ecosystems.

Prof. Hendarmawan emphasized that the establishment of the ecoriparian area is a tangible implementation of Unpad’s Core Scientific Pattern: “Bina Mulia Hukum dan Lingkungan Hidup” (Noble Development of Law and Environment). The initiative not only aims to enhance environmental awareness among Unpad students but also among local communities living near the campus.

Through this initiative, Universitas Padjadjaran plays an active role in supporting the conservation and sustainable management of freshwater ecosystems, aligning with SDG 14 targets, particularly in protecting inland aquatic ecosystems and increasing community participation in water resource conservation.

Marine Tourism Festival 2024



The Marine Tourism Study Program of Universitas Padjadjaran's Vocational School made a strong contribution to SDG 14 (Life Below Water) by organizing the Marine Tourism Festival (MTF) 3.0, an annual event held on 5 December 2024 at Graha Sanusi Hardjadinata, Bandung. Carrying the theme "Explore the Wonderful Marine Tourism Indonesia", the festival served as an inspiring platform for students, academics, and industry partners to share ideas, creativity, and innovations to collectively advance sustainable marine tourism.

One of the key highlights of the event was the inauguration of the Teaching Factory (TeFa) PARI TREND, which marks the transformation of the Marine Tourism Study Program under the Vocational School of Unpad. The Teaching Factory adopts a practice-based learning approach that integrates Indonesia's marine natural beauty with innovations across three main sectors: Marine Spot Tourism and Ecotourism, Marine Hospitality Industry, and Marine Creative Economic Industry. Through PARI TREND, Unpad aims to equip the younger generation with practical skills, maritime knowledge, and innovative mindsets to support the development of sustainable marine tourism.

The event also featured the signing of cooperation agreements between the Marine Tourism Study Program and various strategic partners, including Wisata Sekolah, Smiling Coral Indonesia, Mahat Masagi Unpad, and Seadoo Safari Jakarta. These collaborations aim to drive tourism product innovation, support the management of destinations based on local wisdom, empower coastal communities, and enhance the global competitiveness of Indonesia's marine tourism sector.

Additionally, MTF 3.0 presented three talkshow sessions that brought together experts and practitioners in marine tourism, marine conservation, and the creative maritime industry. These discussions explored the potential and challenges of developing marine ecotourism, innovations in marine tourism management, and the importance of cross-sector collaboration in preserving marine and coastal ecosystems.

Through MTF 3.0, Universitas Padjadjaran strengthened the role of academia and students in supporting the sustainable management and utilization of marine resources, in line with SDG 14 targets, particularly in preserving marine ecosystems, empowering coastal communities, and fostering innovation in environmentally responsible marine tourism.

Fisheries Week 11.0 “Blue Economy for Sustainability Fisheries”

The Student Association of Fisheries (HIMIKAN), Faculty of Fisheries and Marine Sciences, Universitas Padjadjaran (FPIK Unpad), made a strong contribution to SDG 14 (Life Below Water) through the National Seminar on Sustainable Fisheries, held as part of the 11th Fisheries Week. This annual academic forum has become a key platform for fisheries students to engage with pressing issues in marine and coastal resource management.



The seminar focused on critical themes closely tied to the sustainable management of aquatic ecosystems, including Blue Carbon, Measured Fishing, and Fishery Waste Utilization. These discussions aimed to deepen students' understanding of sustainable fisheries practices and equip them with the knowledge needed to address real challenges in preserving marine biodiversity and supporting responsible resource use.



By facilitating direct interaction between students, experts, and policymakers, the seminar encouraged the exchange of knowledge and ideas on sustainable fisheries, emphasizing evidence-based strategies to maintain the health and productivity of Indonesia's marine ecosystems. The focus on measured fishing reflects a commitment to responsible harvesting methods that help sustain fish stocks, while the blue carbon discussions highlight the importance of protecting coastal and marine ecosystems as vital carbon sinks.

Through this initiative, Universitas Padjadjaran actively supports SDG 14, particularly in the areas of conserving and sustainably using marine resources, supporting ecosystem-based management, and building capacity among future fisheries professionals to ensure the long-term health of Indonesia's aquatic ecosystems.



SDG 15

Life on Land

15 LIFE ON LAND



Research by Number (2020-2024)



Publication

200



Citation Impact

1.06



Citation Count

1,434



SDG 15 Life on Land



Greening the Future: Unpad’s Tree Planting Initiatives for Environmental Sustainability



Universitas Padjadjaran (Unpad) consistently contributes to environmental preservation through tree planting activities involving the academic community, alumni, and student organizations.

On January 14, 2024, Unpad, in collaboration with the Indonesian Association of State University Alumni Organizations (Himpuni), planted 51 fruit tree seedlings in the Leuwi Padjadjaran Reservoir area at the Jatinangor Campus. This activity was part of the Himpuni Annual Meeting agenda and aimed to support environmental conservation while strengthening the reservoir’s function as a water buffer for surrounding communities. Tree planting in this area plays a vital role in maintaining ecosystem balance, preventing floods during the rainy season, and ensuring water availability during the dry season.

Subsequently, on April 21, 2024, the student organization International Association of Agricultural Students and Related Sciences (IAAS) LC Unpad held a tree planting event titled “*Tree Planting Event: Planting Hope, Saving Earth*” on the slopes of Mount Geulis, Jatiroke, Jatinangor. In commemoration of International Earth Day, 83 avocado tree seedlings were planted in collaboration with the Forestry Office, Mount Geulis Communication Forum, and Bening Saguling Foundation. This initiative not only aimed to green the environment but also to encourage students and local communities to become more aware of and engaged in environmental conservation. For this effort, IAAS LC Unpad received an award from the Forestry Office and the Acting Governor of West Java.

These two activities demonstrate Unpad’s strong commitment to supporting SDG 15 (Life on Land), particularly in conserving terrestrial ecosystems, protecting biodiversity, and mitigating climate change through increased vegetation cover. Tree planting contributes to oxygen production, carbon dioxide absorption, the provision of habitats for various species, and improvements in air and soil quality in surrounding areas.

Unpad's Palawa Unit Contributes to the Conservation of Endemic Saninten Trees

On December 12, 2024, the Palawa Student Nature Lovers Unit of Universitas Padjadjaran took part in the “1,000 Saninten Tree Planting” activity held in the Bandung Utara (North Bandung) area. The event was organized by Pertamina Patra Niaga Regional West Java as a concrete effort to conserve endangered plant species and protect the environment.

The Saninten tree (*Castanopsis argentea*) is an endemic species native to West Java and plays a crucial role in maintaining forest biodiversity and ecosystems. However, its population has declined significantly due to exploitation and land conversion. Saninten is a protected species under the Indonesian Ministry of Environment and Forestry Regulation No. 92 of 2018, making its conservation a national priority.

This program aims to restore Saninten trees to their natural habitat while raising public awareness of the importance of protecting rare flora. Saninten trees are ecologically valuable as they support forest food chains, its fruit serves as a food source for various wildlife species. Additionally, Saninten trees have a high capacity to absorb carbon dioxide, which contributes to mitigating global warming and improving air quality, particularly in the increasingly urbanized Bandung Utara area. Beyond ecological benefits, Saninten also has economic potential, as its fruit can be processed into valuable food products.

This tree planting initiative marks the beginning of building a sustainable Saninten conservation forest. Palawa Unpad, together with Pertamina Patra Niaga Regional West Java, hopes that this activity will inspire wider community participation in environmental preservation and the protection of endangered plant species.



Agri Summit 2024: KAFP Unpad Market Connect



In response to the growing global food insecurity crisis affecting 880 million people, Universitas Padjadjaran organized Agri Summit 2024: KAFP Unpad Market Connect, a strategic event aimed at advancing sustainable agriculture, protecting terrestrial resources, and promoting innovation. The summit took place from August 30 to September 1, 2024, at Grha Sanusi Hardjadinanti, Bandung, as part of the 65th Anniversary of the Faculty of Agriculture (Faperta) Unpad.

The event featured a series of activities, including the National Seminar on Food Security, a Job Fair & Business Connect, and an Alumni Gathering. The discussions highlighted the urgent need to prepare food systems to address future challenges such as climate change, land degradation, and resource scarcity. Agriculture—including fisheries, livestock, and plantations—remains a critical sector that supports livelihoods, contributes to global GDP, and plays a significant role in maintaining ecosystems and biodiversity.

Minister of Cooperatives and SMEs, Drs. Teten Masduki, underscored the need for innovation and generational renewal in agriculture to address these challenges. He emphasized the risk of a severe food availability gap by 2050 if land and food resources are not well-managed. He also recognized Unpad's significant contributions to agricultural innovation and research.

Unpad Rector, Prof. Rina Indiasuti, highlighted that the university's research-based and technology-driven innovations are aimed at strengthening food security and ensuring sustainable land use. Many of these innovations integrate local wisdom from West Java, such as the use of cassava, which supports both agricultural biodiversity and local community resilience.

The event also provided a platform to promote sustainable land use, encourage the participation of young generations in agriculture, and strengthen collaboration between academia, government, alumni, and industry to achieve food sovereignty while conserving natural resources.

Through Agri Summit 2024, Unpad demonstrated its commitment to SDG 15 (Life on Land) by promoting sustainable agricultural practices, conserving biodiversity through research and innovation, and supporting the sustainable use of terrestrial ecosystems to build a resilient and equitable food system.

Empowering Communities through Sustainable Plant Cultivation

On October 8, 2024, Universitas Padjadjaran held a knowledge sharing session titled “Cultivation Techniques for Vinca and Kaffir Lime Plants”, organized by the Dharma Wanita Persatuan (DWP) Unpad at Bale Rumawat Unpad, Bandung. The session was delivered by Dr. Rahmat Budiarto, S.P., M.Si., Lecturer at the Faculty of Agriculture, Unpad, and attended by the Chair of DWP Unpad, Dr. Reiva Arief S. Kartasmita, along with members and representatives of DWP Unpad and the Faculty of Agriculture.

The session focused on introducing sustainable and practical cultivation methods for Vinca (*Catharanthus roseus*), a popular ornamental plant, and Kaffir Lime (*Citrus hystrix*), which has both economic and ecological value. These plants are categorized as low maintenance species, making them suitable for wider community adoption.

For Vinca cultivation, Dr. Rahmat explained the simple planting process, which involves mixing soil, rice husk charcoal, and organic fertilizer in pots before sowing the seeds. Proper watering and pruning techniques are essential to encourage continuous flowering and maintain plant health.

For Kaffir Lime cultivation, he emphasized the importance of selecting certified seedlings with blue labels to ensure plant authenticity and health. He also explained the advantage of using grafted plants rather than seedlings grown from seeds to avoid excessive thorn growth. Sustainable harvesting practices, such as moderate daily pruning, were introduced to support continuous growth and branch development.

This activity not only provides practical gardening knowledge to the Unpad community but also contributes to SDG 15 (Life on Land) by promoting the cultivation and preservation of plant biodiversity, encouraging sustainable land use at the community level, and enhancing green spaces through home gardening practices. In addition, the initiative strengthens community engagement in environmental stewardship, supporting Unpad’s mission to integrate sustainability across education and community activities.



Advancing Forest Conservation Research on the Global Stage



Dr. Sc. Dina Oktavia, M.Si., Lecturer at the School of Postgraduate Studies, Universitas Padjadjaran, participated in the 26th World Forestry Congress with the theme “*Forests and Society Towards 2050*”, organized by the International Union of Forest Research Organizations (IUFRO) in Stockholm, Sweden, from June 23 to 29, 2024. Dina was one of the recipients of a full sponsorship through the *IUFRO Scientist Assistance Programme*, which also enabled her to join the Pre-Training Congress Workshop (PCTW) on Research Methods held at the Swedish University of Agricultural Sciences, Uppsala, from June 19 to 22, 2024.

The IUFRO World Congress is a global platform for knowledge exchange, vision sharing, and dialogue among scientists, policymakers, forest managers, youth, civil society, and the private sector. It is the largest international forestry research forum, held every five years.

During the congress, Dina presented two research studies:

01

“Unearthing Past Sundaland’s Legacy: The Savanna Corridor of Belitung Kerangas Forest, Indonesia”

This presentation emphasized the importance of conserving kerangas forest ecosystems as unique natural laboratories that have existed since the Last Glacial Maximum. The Belitung Kerangas Forest, located along the Indo Pacific Warm Pool (IPWP), plays a crucial role in reconstructing past climate changes. Dina highlighted the need to establish long term permanent monitoring plots for studying ecological processes and biodiversity in these forests.

02

“Universitas Padjadjaran Arboretum Offers Biodiversity Resources for Long Term Research and Education”

This second presentation showcased the potential of the Unpad Arboretum in Jatinangor as a hub for biodiversity research and education. For more than 15 years, the arboretum has been utilized as a site for student research and practical field activities. Dina emphasized the university’s dual role as both an academic institution and an ecosystem and biodiversity steward, promoting the conservation of terrestrial ecosystems on campus.

Through her active participation, Dina contributed to global scientific dialogue on tropical forest ecosystems and promoted Indonesia’s kerangas forest conservation efforts. She also positioned Unpad as a leading university that integrates forest conservation, biodiversity management, and long term ecological research into its academic and sustainability strategies.

This initiative directly supports SDG 15 (Life on Land) by advancing research on terrestrial ecosystems, enhancing international collaboration for forest conservation, and strengthening the role of universities as knowledge producers and environmental stewards.



SDG 16

Peace, Justice and Strong Institutions

16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



Research by Number (2020-2024)



Publication

243



Citation Impact

0.87



Citation Count

1,236



SDG 16 Peace, Justice and Strong Institutions



Strengthening Integrity Zones to Promote Transparent and Accountable Governance

Universitas Padjadjaran is strengthening the development of Integrity Zones across all faculties and directorates as part of its commitment to improving institutional governance quality. The establishment of Integrity Zones aims to achieve the Corruption Free Zone (WBK) and Clean and Serving Bureaucracy Zone (WBBM) statuses, supporting the realization of transparent, accountable, and high-quality governance within the university.

The initiative was highlighted during the Talkshow “The Role of Public Information Disclosure in Supporting Integrity Zones in Higher Education Institutions”, held on January 12, 2024, at Bale Sawala, Unpad Rectorate Building, Jatinangor. Vice Rector for Organization and Planning, Prof. Drs. Yanyan Mochamad Yani, MAIR., Ph.D., emphasized that as Unpad strives to reach the top 500 global university rankings, good governance must be reinforced alongside academic excellence. Integrity Zones are being developed through a bottom up planning approach to ensure transparency and accountability at every level.

Dr. H. Arya Sandhiyudha, S.Sos., M.Sc., Deputy Chair of the Central Information Commission, explained that public information transparency forms the ecosystem of good governance. Open governance is key to building public trust and is an essential component of democratic institutions. Since the early 2000s, open government and public information disclosure have become increasingly important as indicators of institutional integrity and national progress.

Through the development of Integrity Zones, Unpad demonstrates its commitment to SDG 16 (Peace, Justice, and Strong Institutions) by fostering transparent, participatory, and accountable institutional governance, building a culture of integrity, and contributing to stronger, more trustworthy higher education institutions.



Strengthening Institutional Governance through Risk Management Implementation



On January 17, 2024, Universitas Padjadjaran held a Socialization on Risk Management Implementation and Technical Guidance on Risk Register Preparation for university leaders. The event took place in the Joint Meeting Room 2, Rectorate Building, Jatinangor, and was officially opened by Vice Rector for Organization and Planning, Prof. Drs. Yanyan Mochamad Yani, MAIR., Ph.D..

In his remarks, Prof. Yanyan emphasized that the implementation of risk management is a crucial part of strengthening good university governance at Unpad. Risk management will be applied to both academic and non-academic activities, with continuous monitoring of risks and their mitigation strategies.

Dr. Ivan Yudianto, S.E., Ak., M.Si., Head of Unpad's Risk Management Team, explained that each risk owner (directors, deans, heads of units, and heads of business units), supported by risk officers (secretaries, vice heads, managers), must identify and submit potential risks in their respective units to the central Risk Management Team, Vice Rectors, and Rector.

The implementation of risk management aims to protect Unpad's reputation, maintain its competitive advantage, and support strategic decision-making. Using the ISO 31000:2018 standard, Unpad integrates risk management into its overall management system to ensure sustainable improvement. Early risk identification allows for proactive mitigation strategies, reducing potential negative impacts while enabling the exploitation of opportunities.

Through this initiative, Unpad demonstrates its commitment to SDG 16 (Peace, Justice, and Strong Institutions) by embedding transparency, accountability, and risk-based decision-making into university governance, thereby strengthening institutional resilience and integrity.

Strengthening Student Governance through Capacity Building and Budget Planning Workshops



On February 26–27, 2024, Universitas Padjadjaran held the “Student Affairs Workshop and Technical Guidance on Preparing the 2024 Activity and Budget Plan for Student Organizations” at the Rectorate Building, Jatinangor. The activity was attended by faculty student affairs coordinators/facilitators and student organization leaders at both the university and faculty levels.

The workshop aimed to strengthen the capacity of student organization leaders in designing structured, impactful, and sustainable activity plans and budgets. Dr. Boy Yoseph Cahya Sunan Sakti Syah Alam, Director of Student Affairs and Alumni Relations, emphasized that the workshop was designed to help student leaders carry out activity planning more effectively while encouraging collaboration and innovation. The Directorate also committed to providing assistance for student groups facing challenges in the planning process.

Dr. Boy encouraged students to prioritize programs that contribute to student achievement, align with Unpad’s Key Performance Indicators (IKU) and Simkatmawa, and foster character development and soft skills to prepare students for their post-graduation journeys. He also highlighted the importance of designing long-term, sustainable programs that can be continued and improved by future student leaders, ensuring continuity of positive initiatives. In addition, students were encouraged to document their activities in the form of books or articles to inspire broader participation and knowledge sharing.

Through this workshop, Unpad demonstrated its commitment to SDG 16 (Peace, Justice, and Strong Institutions) by empowering student organizations, improving governance capacity at the student level, and fostering a culture of transparent planning, accountability, innovation, and collaboration within the campus community.

Strengthening Faculty Information and Documentation Management Officers (PPID) to Enhance Transparency and Good Governance



Universitas Padjadjaran, in collaboration with the Central Information Commission, held a Training on Information and Documentation Management for Faculty-level Information and Documentation Management Officers (PPID Pelaksana) on Friday, September 20, 2024, at Bale Rucita, Rectorate Building, Jatinangor.

This initiative is part of Unpad’s strategy to strengthen information transparency and public communication not only at the university level but also within each faculty. According to Arif Firmansyah, S.Si., M.T., Secretary of the Directorate of Governance, Legal, and Communication, the training supports Unpad’s Integrity Zone Program by integrating strategic functions, including the optimization of faculty PPID roles. The goal is to enhance faculty-level information systems and strengthen digital public information access, particularly through faculty websites.

Annie Londa, S.H., M.H., Expert Staff at the Central Information Commission, highlighted that Unpad has been recognized as an “informative” public institution for three consecutive years. She emphasized the importance of extending this achievement beyond the central administration to faculties and units, ensuring that transparency is practiced at every institutional level. Annie also discussed the role of digital transformation in information management, emphasizing that websites are critical as the front-facing platform for providing periodic updates, public information, and centralized online information requests.

The training also focused on the responsibilities of PPID in ensuring that information provided to the public is accurate, transparent, and compliant with regulations, while protecting confidential documents. Annie stressed the importance of commitment, adequate infrastructure, digital reporting, website development, innovation, collaboration, and inclusive services to build a strong and transparent information system across Unpad.

Through this activity, Unpad reaffirmed its commitment to SDG 16 (Peace, Justice, and Strong Institutions) by enhancing transparency, accountability, and digital governance at the faculty level, thereby strengthening institutional integrity and public trust in higher education governance.

Fostering Civic Values and National Awareness through Citizenship Education

On October 4, 2024, Universitas Padjadjaran held a public lecture for the Pancasila and Citizenship course (Tahap Persiapan Bersama/TPB) at Bale Sawala, Rectorate Building, Jatinangor, featuring Major General (Ret.) Agus Arif Fadila, S.I.P., Deputy for the Strengthening of National Values at Lemhannas RI, and Prof. Susi Dwi Harijanti, S.H., LL.M., Ph.D., Lecturer at the Faculty of Law, Unpad.



Agus Arif Fadila emphasized that becoming a good citizen requires understanding and practicing rights and obligations, demonstrating social awareness and responsibility, personal discipline, and critical thinking skills. He outlined that the path to becoming educated and responsible citizens begins with citizenship education, which functions as a medium to develop knowledge, skills, and civic dispositions. In today’s era of information disruption, Agus stressed the importance of national awareness and moral education to shape citizens who are not only well-informed but also morally grounded and nationally minded.

Prof. Susi Dwi Harijanti delivered a lecture on the principles of state governance based on the 1945 Constitution. She explained that Indonesia is organized as a unitary state with decentralized functions, reflecting both national unity and local autonomy. She also emphasized the principle of the republic, which entails active citizen participation in governance and the defense of individual freedoms. Prof. Susi highlighted the crucial role of universities in shaping national history and governance, urging higher education institutions to take a proactive role as the “fourth pillar” in supporting state governance alongside the legislative, executive, and judiciary branches.

Through this activity, Universitas Padjadjaran supports SDG 16 (Peace, Justice, and Strong Institutions) by fostering civic education, moral awareness, national identity, and democratic participation among students. The integration of civic and constitutional education contributes to building responsible, participatory, and well-informed citizens, which is essential for strengthening democratic institutions and good governance in Indonesia.



SDG 17

Partnership for the Goals

17 PARTNERSHIPS
FOR THE GOALS



Research by Number (2020-2024)

The University engages in various forms of strategic partnerships to support the achievement of the Sustainable Development Goals (SDGs), particularly SDG 17: Partnerships for the Goals. These partnerships involve multiple sectors, including government bodies, academic institutions, industry, and civil society, thereby creating collaborative efforts that generate tangible impacts on sustainable development. The forms of these partnerships can be described as follows:



SDG 17 Partnership for the Goals

17 PARTNERSHIPS FOR THE GOALS



Universitas Padjadjaran’s Involvement in SDG Policy Development through the West Java VLR 2023 Collaboration

Universitas Padjadjaran demonstrated direct involvement in Sustainable Development Goals (SDGs) policy development at the regional level through its participation in the discussion for the preparation of the Voluntary Local Review (VLR) of West Java Province’s SDG Achievements 2023, organized by the Regional Development Planning Agency (Bappeda) of West Java Province in collaboration with the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) on Thursday, January 4, 2024.

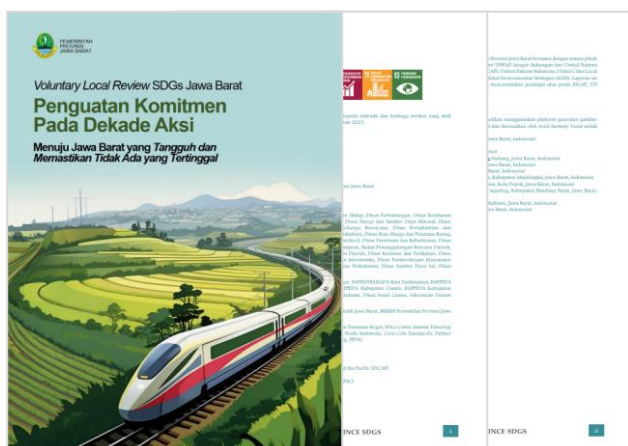
In this activity, Prof. Zuzy Anna from Universitas Padjadjaran actively served as a speaker in Breakout Room 1, which focused on the review and projection of three main SDG goals — Goal 2 (Zero Hunger), Goal 3 (Good Health and Well-being), and Goal 5 (Gender Equality). The discussion included analysis of progress from 2015 and 2022, projections for 2030, as well as the identification of challenges, existing policies, and follow-up actions to strengthen the implementation of SDGs at the regional level.

Through this session, Universitas Padjadjaran contributed evidence-based input and academic insights on strategic issues such as food security, stunting reduction, maternal mortality, and women’s empowerment. The university also provided input in modelling future scenarios with and without interventions, and formulating policy recommendations to support sustainable achievement of SDG targets in West Java.

The discussion involved a wide range of stakeholders, including representatives from the Department of Food Security and Agriculture (DKPP) of West Java, the Bappeda of Indramayu Regency, the Department of Food Security of Bogor City, as well as civil society organizations such as Aisiyah. This multi-stakeholder collaboration facilitated the exchange of information and best practices in SDG implementation, covering initiatives such as food insecurity management, food waste reduction, urban farming, and women’s empowerment programs at the community level.

Universitas Padjadjaran’s active participation in the VLR development process highlights its concrete contribution to identifying key development challenges, designing evidence-based strategies and policies, monitoring and reporting progress, and strengthening adaptive management mechanisms at the regional level.

Through this collaboration, the university reinforces its role as a strategic academic partner for local governments and international organizations in accelerating the achievement of the Sustainable Development Goals (SDGs) in West Java and across Indonesia.



Universitas Padjadjaran’s Contribution to SDG Policy Development through Environmental Strategic Assessment (KLHS) in Sumedang Regency







Universitas Padjadjaran demonstrated direct involvement in regional SDG policy development through the active participation of Ahmad Komarulzaman, who represented the university in two key government consultation events organized by the Environmental and Forestry Agency (DLHK) of Sumedang Regency in early 2024. These events were held as part of the formulation process for the Strategic Environmental Assessment (Kajian Lingkungan Hidup Strategis/KLHS) documents that underpin long-term and medium-term development plans in Sumedang Regency.

The first event, the Public Consultation 2 for the KLHS of the Long-Term Regional Development Plan (RPJPD) 2025–2045, took place on Wednesday, February 28, 2024, at Sapphire City Park, Sumedang. The discussion focused on the formulation of alternative scenarios and policy recommendations for sustainable regional development. During this session, Mr. Ahmad Komarulzaman delivered a presentation titled “SDGs Interlinkages Analysis: Optimizing SDG 2030 Planning,” which covered key topics such as:

- ① An overview of the SDGs framework, principles, dimensions, timeline, and alignment with Indonesia’s Vision 2045;
- ① The transformation from MDGs to SDGs and the progress of SDGs achievement in the Asia-Pacific region (2015–2023);
- ① Localization strategies as critical accelerators for the 2030 Agenda;
- ① The SDGs Interlinkages Methodology, including indicator data collection, performance assessment, and visualization;
- ① Policy and program clustering based on interlinkages analysis; and
- ① Identification of development gaps in West Java.

The second event, the Kick-Off Meeting for the KLHS of the Medium-Term Regional Development Plan (RPJMD) 2025–2030, was held on Wednesday, March 6, 2024, also at Sapphire City Park, Sumedang. In this session, Mr. Komarulzaman presented a comprehensive analysis on “Midterm Progress of SDGs Achievements,” which included:

 <p>The current SDG status and achievements in the Asia-Pacific region (2024</p>	 <p>Achievement prospects for West Java Province;</p>	 <p>Goal-by-goal progress assessment; and</p>	 <p>The halfway progress and achievement prospects for 33 SDG indicators in Sumedang Regency.</p>
---	--	--	--

Through these contributions, Universitas Padjadjaran played a vital role in identifying local challenges, modelling policy alternatives, and providing evidence-based recommendations to align regional development planning with the Sustainable Development Goals. This engagement exemplifies the university’s commitment to integrating sustainability into public policy processes and supporting adaptive management and informed decision-making at the regional government level.

Strengthening Regional Partnerships: Unpad’s Nationwide Collaboration for Education, Innovation, and Community Empowerment



Universitas Padjadjaran (Unpad) continues to expand its strategic collaborations with various regional governments across Indonesia to advance the university’s mission in education, research, and community service. Formal agreements were established with the local governments of Belitung, Banggai, and South Nias, focusing on strengthening human resource development and implementing the tridharma of higher education. These collaborations include academic programs, research initiatives, community engagement projects, and opportunities for civil servants to pursue higher education. Local leaders expressed optimism that these partnerships will bring measurable benefits to their regions and contribute to national progress.



Unpad also welcomed the Acting Regent of Sumedang to discuss concrete collaborations, particularly targeting poverty reduction and stunting. One of the flagship initiatives is the implementation of a nutritious lunch program for students, involving expertise from multiple faculties such as nutrition, food technology, and agriculture. The visit also highlighted the development of Unpad’s Veterinary Hospital, which is expected to serve not only as an academic facility but also a public service center for the community. Unpad emphasized its commitment to community education, particularly in promoting nutritional awareness to support healthy and intelligent future generations.

Beyond local government partnerships, Unpad strengthened its engagement at the provincial level through the program “Universitas Padjadjaran Meets Alumni in Lampung.” During the visit, Unpad signed cooperation agreements with the Regional House of Representatives (DPRD) of Lampung, the University of Lampung (Unila), RSUD Dr. H. Abdul Moeloek Hospital, and several educational institutions and organizations. Unpad also took part in a seminar titled “The Future of Doctors with Artificial Intelligence for Indonesia Emas 2045,” where discussions centered on integrating AI into medical education and healthcare systems. These initiatives aim to enhance research collaboration, innovation dissemination, and human capital advancement in Lampung.

In the academic field, Unpad’s study programs continue to apply experiential learning to regional issues. The Government Science Study Program conducted a field study in Temanggung, Central Java, focusing on local government capacity to address poverty among tobacco farmers. Through direct observation and community engagement, students learned to connect theoretical concepts with real-world governance challenges, reinforcing Unpad’s role in fostering socially responsive academic practices.

Unpad also solidified its contribution to environmental research and laboratory services. The Ecology Laboratory of the Center for Environment and Sustainability Science (CESS), accredited with KAN ISO 17025:2017, received a visit from the Environmental Laboratory of Ciamis Regency. During the visit, the Ciamis team observed environmental testing procedures, sample management, waste treatment practices, and laboratory quality assurance systems. CESS Unpad also plays an active role in delivering Environmental Impact Assessment (AMDAL) training to strengthen professional capacity in environmental management. The visit is expected to foster stronger collaboration and enhance laboratory standards for better environmental service delivery.



Strengthening Global Partnerships: Universitas Padjadjaran’s Collaboration with Chiba University and Kochi University as a Contribution to SDG 17



Universitas Padjadjaran (Unpad) continues to advance its commitment to Sustainable Development Goal 17 (Partnerships for the Goals) by strengthening global academic cooperation. In 2024, Unpad established two significant international collaborations with Chiba University and Kochi University in Japan, focusing on academic development, research collaboration, student and staff mobility, and knowledge exchange.

01 Partnership with Chiba University: Development of Double Degree Programs

On 28 February 2024, Unpad formalized a Memorandum of Agreement (MoA) with Chiba University at Bale Sawala, Unpad Rectorate Building, Jatinangor. This collaboration involves the Faculty of Mathematics and Natural Sciences (FMIPA) and the Faculty of Pharmacy of Unpad, together with the Graduate School of Pharmaceutical Sciences and the Graduate School of Medical and Pharmaceutical Sciences of Chiba University.

The partnership primarily focuses on the implementation of a double degree program, joint academic activities, faculty and student exchanges, and collaborative research initiatives. As part of the event, Prof. Yasumitsu Ogra introduced the academic structure of Chiba University’s Graduate School, followed by a public lecture by Prof. Kunikazu Moribe on *“Morphological and Physicochemical Characterization of Drug-nanosized and Drug-supersaturated Formulations.”*

Prof. Iman Rahayu and Prof. Ajeng Diantini expressed their appreciation for this international collaboration, emphasizing its significance for strengthening Unpad’s internationalization in education and creating broader learning opportunities for students. Chiba University representatives, Prof. Moribe and Prof. Ogra, also conveyed their hope that the partnership would continue to grow and generate long-term academic benefits.

On 23 August 2024, Unpad expanded its global cooperation through the signing of a Memorandum of Understanding (MoU) with Kochi University, Japan, conducted virtually. In her remarks, Unpad Rector Prof. Rina Indiasuti highlighted that this MoU represents more than a formal agreement—it symbolizes a shared vision to foster academic enrichment, intercultural communication, collaborative research projects, and exchange programs for students and faculty members.

President of Kochi University, Dr. Hiroyuki Ukeda, stated that Unpad's academic integrity and research excellence align with Kochi University's aspirations. He emphasized that this partnership is expected to provide students from both institutions with meaningful academic experiences while contributing to innovative solutions for global challenges.

The collaboration is actively supported by the Faculty of Geological Engineering (FTG) at Unpad. Dean Prof. Mega Fatimah Rosana explained that the agreement will provide opportunities for Unpad students to study at Kochi University for several months or up to one semester. Conversely, Unpad is prepared to welcome students and researchers from Kochi University through short visits, student exchanges, and summer programs. This cooperation is also strengthened by the involvement of experts from the Marine Core Research Institute (MaCRI) of Kochi University, enabling joint research particularly in marine geology and environmental science.



Partnership with NGO

Padjadjaran Green Innovation Summit (PGIS) 2024:

Unpad's Collaborative Action with NGOs for Environmental Innovation

The Student Executive Board of Universitas Padjadjaran (BEM Kema Unpad), through its Department of Environment, demonstrated a strong commitment to advancing innovation and awareness on environmental issues through the *Padjadjaran Green Innovation Summit (PGIS) 2024*. The event, held on October 30, 2024, at Bale Santika, Jatinangor Campus, served as a dynamic platform for students to present creative ideas addressing challenges in waste management and climate change.

PGIS 2024 aimed to foster youth-led innovation while connecting academia, industries, and non-governmental organizations (NGOs) in developing sustainable environmental solutions. By engaging various stakeholders, the summit positioned students not only as innovators but also as active contributors to real-world sustainability challenges.

The event was supported by a diverse range of partners, including Greenpeace Indonesia, Plan International Indonesia, Greeneration Foundation, and Teens Go Green Indonesia — all well-established NGOs actively promoting climate action, circular economy, and environmental education. Additionally, PGIS 2024 collaborated with Plasticpay, Waste4Change, Ecoxyttem, the Ministry of Environment and Forestry (KLHK), and the National Research and Innovation Agency (BRIN), reflecting a strong cross-sector partnership.

In his remarks, Dr. Eng. Boy Yoseph Cahya Sunan Sakti Syah Alam, Director of Student Affairs and Alumni Relations at Unpad, emphasized the need for early environmental education and sustainable waste management practices, highlighting the urgent threat of microplastics in food chains. Meanwhile, representatives from KLHK and industry partners reiterated the importance of shifting waste paradigms from “collect, transport, dispose” to “reduce, reuse, recycle,” and promoting a circular economy framework.



In the competition segment of the summit, participants presented their innovative ideas on sustainable waste management through academic papers and project proposals discussed in a Forum Group Discussion (FGD) setting. The competition encouraged analytical and creative thinking in addressing environmental challenges, integrating research-based approaches with real-world solutions. A Best Paper Award was also presented to recognize the most outstanding and impactful innovation concept.

Beyond the main event, PGIS 2024 also included an external educational visit where students visited waste processing and recycling facilities to observe circular economy practices and waste-to-resource technologies. This visit enabled students to gain firsthand insights into practical waste management systems, explore community-based recycling models, and connect their classroom knowledge with actual sustainability initiatives. The visit served as an experiential learning opportunity that strengthened Unpad's commitment to community-based environmental education.

Through its inclusive collaboration with multiple NGOs and youth-based organizations, PGIS 2024 embodied the principles of SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), and SDG 17 (Partnerships for the Goals). The summit demonstrated Unpad's ongoing commitment to integrating sustainability education, student engagement, and community partnership to drive environmental innovation at both local and national levels.

This publicly documented initiative serves as tangible evidence of Unpad's collaboration with NGOs for the SDGs, encompassing student volunteering, research-based dialogue, educational resource development, and experiential learning through field visits, thereby fully meeting the criteria for impactful university-NGO partnerships.