



Supplementary

# Sustainability Report 2021

## SDG 17:

Strengthen the means of implementation and  
revitalize the global partnership for sustainable  
development

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# Learning Program



# 1

## Experts Discuss the Potential of Sugar Palm as Indonesia's Leading Product

The Focus Group Discussion discussed research on community economic diversification based on sugar palm potential through stakeholder collaboration and the development of sugar palm around Mount Rinjani National Park (TNGR).

On October 3, 2021, at IPB Today, the discussion raised was useful to support research on community economic diversification based on sugar palm potential through stakeholder collaboration and the development of sugar palm around Mount Rinjani National Park (TNGR).

Outcomes: Stakeholders understand and know community economic diversification based on sugar palm potential through stakeholder collaboration and sugar palm development around Mount Rinjani National Park (TNGR).

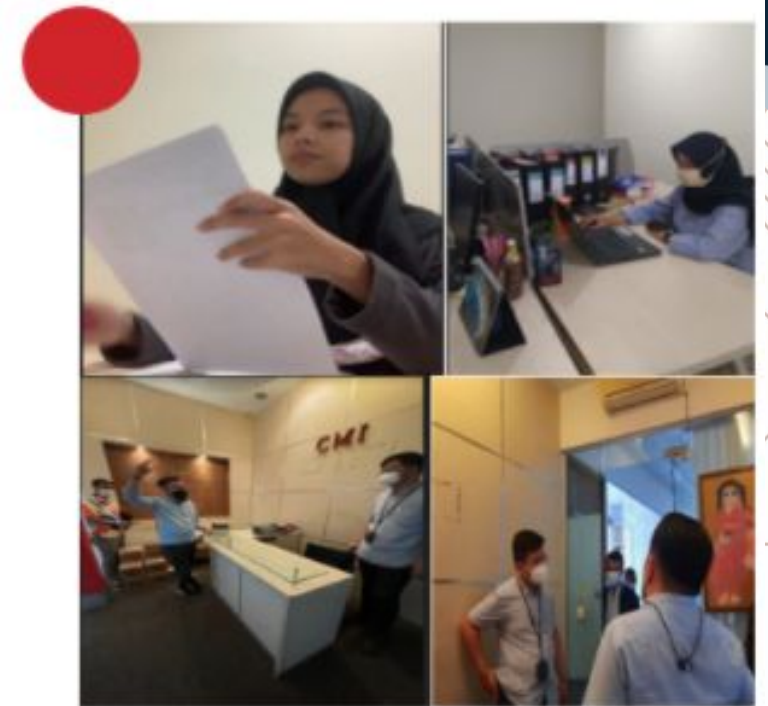


# 2

## SB-IPB Internship/Work Practice Program

In implementing independent learning, the SB-IPB independent campus held an internship program. The SB-IPB Internship Program will begin in the second week of September 2021 for one semester. The existence of this internship program is expected to be a learning medium while providing sufficient experience to students through direct application of various business theories in the workplace (experiential learning) with a project based learning approach to strengthen hard skills (complex problem solving skills, analytical skills, etc.) and soft skills (professional/work ethics, communication, and cooperation, etc.).

The internship program is carried out by cooperating with SB-IPB alumni who have companies in line with the development of learning outcomes in the Bachelor of Business Program. From the selection process results, 6 SB-IPB students were selected to run the internship program. The six students are spread across several companies that are partners in implementing this program. Four companies are partners in implementing this internship program, namely PT. Permata Inti Proteksindo, PT. Permata Indo Realty, PT. Inti Mulia, as well as Ananda Bogor School. During the internship, in addition to doing company tasks at the internship site, students also get assignments to strengthen the substance of the transferred courses in the current semester.



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# 3

## MS-FSCC Joint Master Program

The Master of Science in Food Security and Climate Change (MS FSCC) is a joint degree offered by five members of the University Consortium for Graduate Education in Agriculture and Natural Resources (UC). namely Kasetsart University (KU), University of the Philippines Los Baños (UPLB), Universiti Putra Malaysia (UPM), Institut Pertanian Bogor (IPB) and Universitas Gadjah Mada (UGM).

IPB University has developed the modules for 2 core compulsory courses, and has been offered to the students in IPB University on second semester 2018-2019.

1. Changing Climate and its Impacts on Natural Resources
2. Impact Assessment and Evaluation of Projects and Policies.

To implement this study program, an Organizing Committee to establish the academic paper to be proposed to the academic senate of IPB has been assigned. This study program is targeted to be opened odd semester 2022/2023. However, students from other study programs may join the MSFSCC offered by university partners.



MS Food Security  
& Climate Change

Target outcome :

Sustainable food production systems and resilient agricultural practices (2.3)

Education for sustainable development and global citizenship (4.7) Strengthen resilience and adaptive capacity to climate-related disasters (13.1)



# 4

## PARE JOINT ACADEMIC PROGRAM

The program is expected to produce leaders and create a network to support development in Asia. To this end, through collaborative education with the PARE consortium, quality assurance for multidisciplinary education, creation of an educational collaboration model that coordinates between educational fieldwork and lab work, and establishment of a PARE alumni network that assembles experts in dissimilar fields and research will be achieved.

This program will establish a collaborative educational system involving HU's six partner institutions in Indonesia and Thailand for the purpose of developing personnel to become global leaders that will be active in resolving challenges related to populations, activities, resources and environments (PARE) in ASEAN countries, including Bogor Agricultural University (IPB University)

PARE Summer School 2021 was held on 4 – 9 October 2021 in Hokkaido University with hybrid system, participated by IPB University students and other students from Japan and Thailand



Target outcome :

Education for sustainable development and global citizenship (4.7)

Developing multi-stakeholder partnerships to share knowledge, expertise, technology, and financial support (17)



# 5

## IPB - IAP VIRTUAL EXCHANGE PROGRAM 2021 RYUKYU'S UNIVERSITY

The activity is part of the International Agricultural Program (IAP) by Faculty of Agriculture, University of the Ryukyus in collaboration with IPB and other universities in South East Asia and South Asia Selatan such as Ibaraki University, Khon Kaen University (Thailand), Ruhuna University (Sri Lanka), and Sher-e-Bangla Agricultural University (Bangladesh).

Virtual Exchange Program 2021 was held online on 13-24 September 2021 participated by four universities : IPB, Ryukyus University, Ruhuna University dan Khon Kaen University with total participants 20 students.

Target outcome : Education for sustainable development and global citizenship (4.7); Strengthen resilience and adaptive capacity to climate-related disasters (13.1); Developing multi-stakeholder partnerships to share knowledge, expertise, technology, and financial support (17)



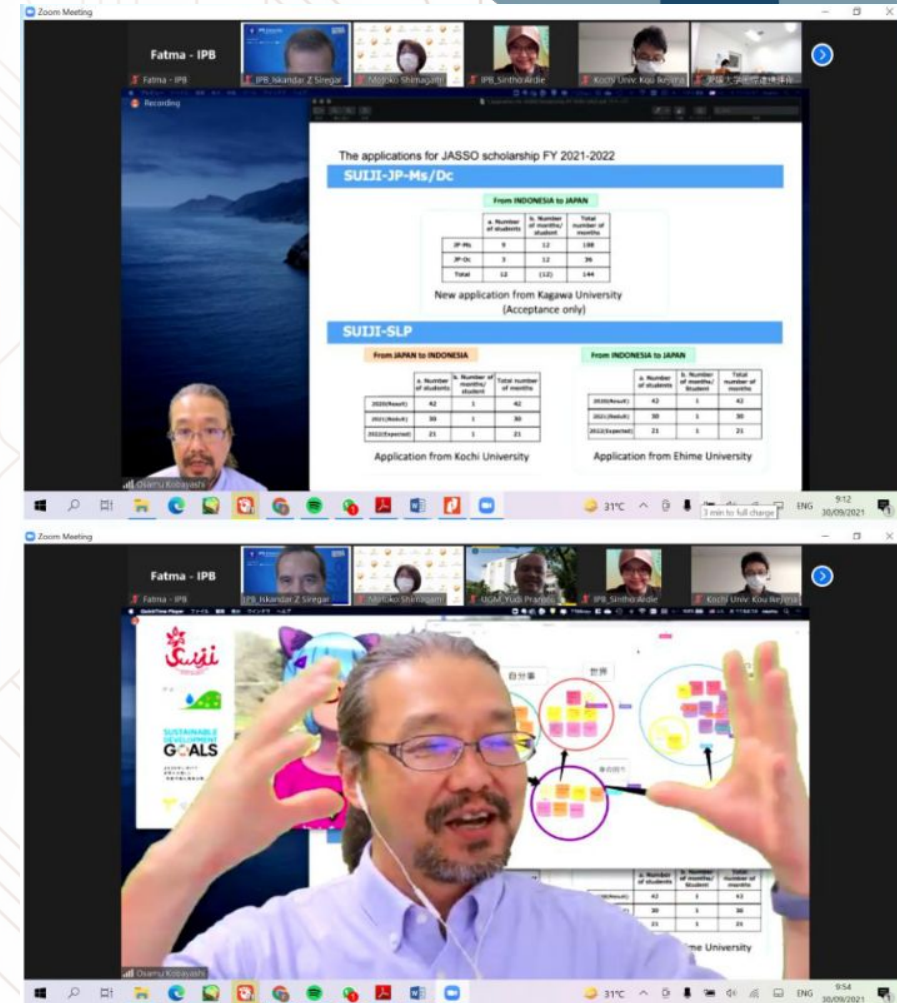
# 6

## SUIJI JOINT PROGRAM

SUIJI (Six University Initiative Japan – Indonesia) is a consortium of 6 universities, three each from Indonesia; IPB, UGM, and UNHAS, and three from Japan; Ehime University, Kochi University, and Kagawa University.

SUIJI establishes cooperation in education and research in 6 research sectors, namely; (1) Forestry, (2) Environment control, (3) Functional Foods, (4) Fisheries and marine sciences, (5) Hydrology and micrometeorology, and (6) Soil sciences and nanotechnology.

One of SUIJI's programs is the SUIJI Joint Program for Master and PhD Students. In 2020 four students of the IPB master's program have completed the SUIJI Joint Program at Kagawa University, Ehime University and Kochi University. In 2021 this program cannot carry out this activity to the pandemic constraint.



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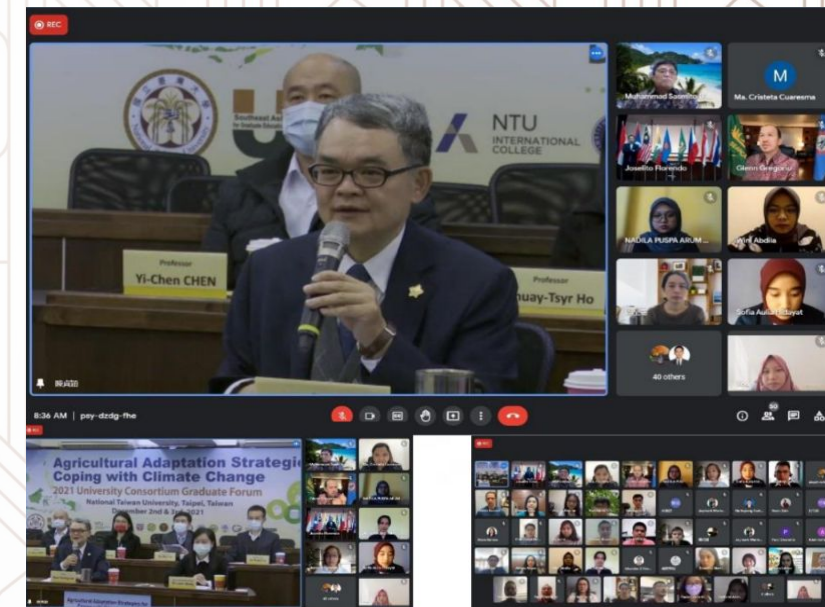


# UNIVERSITY CONSORTIUM FACULTY FORUM SEARCHCA

The Faculty Forum is an annual event that aims to provide an opportunity for faculty members from UC members to develop camaraderie, encourage transdisciplinary studies, and promote greater integration of research through strategic partnerships for collaboration. This activity is also a way to further strengthen the relationship between and among the UC members which would hopefully lead to collaborative research proposals

Participated by faculty members from UC members, The 3rd Faculty Forum was held online on 19-20 January 2022 with theme : “Agricultural Science for a Better World”

The 7<sup>th</sup> University Consorsium Graduate Forum – SEARCHCA “Agricultural Adaptation Strategies for Coping with Climate Change” has been conducted online on December 2-3, 2021, Hosted by National Taiwan University, Taipei, Taiwan



# 8

## TWINCLE PROGRAM: Summer institute for High School East and Southeastern Asia

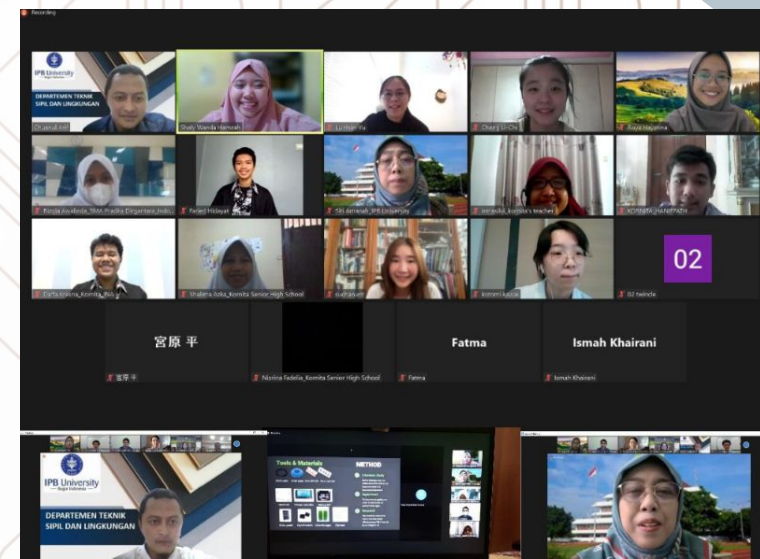
The Asia & ASEAN center for Educational Research was established in February 2018 based on the achievements of the Twin College Envoy Program of student exchange “TWINCLE”. TWINCLE was started in 2012, and it was designed to create mutual understanding among students from East and Southeastern Asia through activities of science and education. More than 1000 undergraduate and graduate students have participated as exchange students, and more than 25,000 high school students have joined the science classes over the course of one decade of TWINCLE activities. To date, 18 universities from eight countries have joined the programs of the center.

During the COVID-19 pandemic, part of the TWINCLE activities this year have moved online. Taking this as an opportunity, the center has recently developed the Summer Institute Program for high school students in East and Southeastern Asia in collaboration with university students and faculty members

IPB university organized high school students, university students and faculty member to participate on the activities such as:

- Asian & ASEAN High School Students Research Presentation
- Asian & ASEAN High school Students SDGs Workshop
- Faculty Meeting

That was held on 8, 22 and 29 August, 2021



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# 9

## Webinar Agro-Maritime Logistics Ecosystem & Halal Industrial Logistics

The webinar was held to promote PS LOG to stakeholders/practitioners, covering the vision-mission, competence, and agro logistics programs managed by the Agro-Maritime Logistics Study Program, as well as establishing PS LOG communication with the government, academia, industry, entrepreneurs, and agro-maritime logistics practitioners. by conducting regular webinars every year.

The webinar will be held on 3 and 8 July 2021 (2 days) through an online zoom meeting with a total of 322 participants.



# 10 Webinar CSS Policy Analysis

The CSS webinar aims to collect data and get input from stakeholders regarding the challenges and opportunities of implementing CSS throughout Indonesia in the future and to develop a basic understanding of aquaculture and mangrove governance in Indonesia, including historical perspectives, current status, and future goals for sustainable shrimp farming industry.

The CSS Policy Analysis webinar was held on October 12, 2021, using an online zoom meeting with a total of 140 participants.



# Study Program: Implementation of the Halal Industry Logistics Program

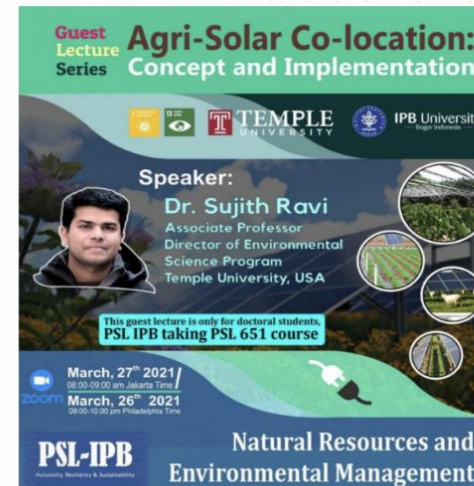
The halal industrial logistics program is PS's effort. Agro-Maritime Logistics to accommodate the needs of logistics stakeholders in providing supply chain services for halal products or the needs of consumers who require logistics services according to sharia

Halal Industrial Logistics Program was opened in August 2021, which is structurally under the specialization of Agro-Industrial Logistics.

- LOG651 Halal Quality Assurance System
- LOG652 Halal Industry and Advances Technique Analysis
- LOG653 Fiqh Management of Halal Products and Services
- LOG654 Processing of Halal Foods and Foodstuffs



# 12 General Lecture and General Study PS PSL



The activity is part of the Constitutional Court and adds insight to PS-PSL IPB students by inviting domestic and foreign experts who are generally partners of lecturers

To provide additional insight and exchange ideas and opinions related to the topics discussed; as well as increase the network of cooperation

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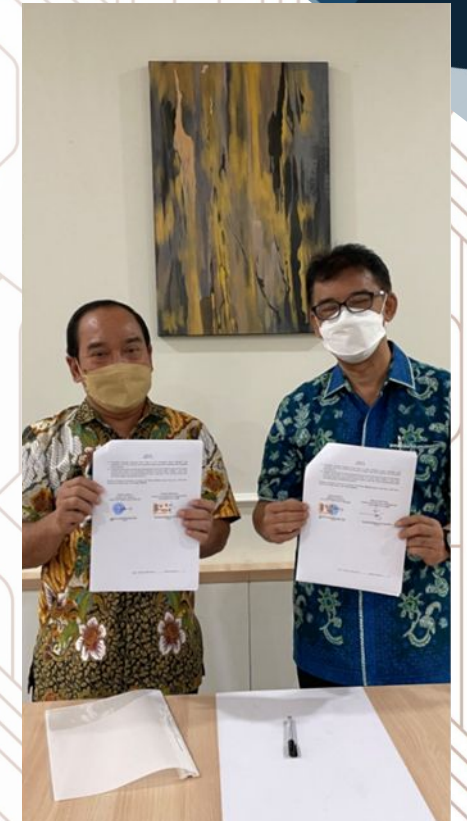


# 13 Establish Cooperation, IPB University Vocational School Signs MoA with the Faculty of Science and Technology Jambi University

The Vocational School of IPB University cooperates with the Faculty of Science and Technology, Jambi University. Both agreed to establish cooperation in the fields of education, applied research and community service.

The signing of the Memorandum of Agreement (MoA) was carried out at the Executive Lounge of the IPB University Vocational School Dean Building, last week. This activity was attended by the Dean of the Faculty of Science and Technology, University of Jambi, Prof. Damris M, Deputy Dean for Resources, Cooperation and Development of the Vocational School of IPB University, Dr. Wawan Oktariza, Head of the Food Quality Assurance Study Program (Prodi) Dr. Andi Early, Head of the Engineering and Engineering Study Program. Environmental Management Dr. Sulistijorini, Head of Chemical Analysis Study Program, Armi Wulanawati, SSi, MSi, Chairman of the Cooperation Commission Dr Pria Sembada and Chairman of the Public Relations and Alumni Commission Willy Bachtiar, MIKom.

“The cooperation agreement includes increasing the capacity of human resources through vocational education, curriculum development and learning content. Cooperation in the field of applied research, especially in the fields of chemistry, the environment, the food industry, and other fields,” said Dr Wawan Oktariza.



URL:

<https://ipb.ac.id/news/index/2021/10/jalin-kerjasama-sekolah-vokasi-ipb-universitytandatangani-moa-dengan-fakultas-sains-dan-teknologi-universitassambi/06ff0193534b31ae35f6ac04fbf5e6e3>



[sustainability.ipb.ac.id](https://sustainability.ipb.ac.id)



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# 14 IPB UNIVERSITY VOCATIONAL SCHOOL LECTURES PROVIDE SANITATION AND HYGIENE TRAINING AT UKM SAGO, BOGOR CITY

A number of IPB University lecturers from the Vocational School also provided sanitation and hygiene training for UKM Sago, in Tanah Baru Village, Bogor City. Sago is a food product that is increasingly in demand due to its unique gelatinization properties, chewy and elastic. Good quality of raw materials will determine the quality of the final product produced.

Ai Imas Faidoh Fatimah, IPB University lecturer from the Vocational School said that sanitation and hygiene in the production process play an important role in determining food quality and safety.

Ai Imas also emphasized the importance of sanitation must be applied to all food production facilities. The facilities in question, such as buildings and machinery and equipment, must always be kept clean so as to prevent physical, chemical and microbiological contamination of food products.



"Sanitation can be carried out by various methods, both physically and chemically, taking into account the factors of production facilities, such as building conditions, machine tools, surfaces that come into contact with food, clean water supply and sanitation facilities," he said.





# 15 The Seventh China-Southeast Asian Countries Marine Cooperation Forum

26-27 October 2021, Beihai, China

A workshop on the implementation and updating of Marine Spatial Planning programs and activities in several countries in Asia. This workshop is also a pre-activity of the UN Ocean Decade which will be held by the UN in March 2022. This activity is carried out by Beihai University China.

Delivered material with the title “MARINE AND COASTAL SPATIAL PLANNING IN INDONESIA An overview of the implementation of coastal and marine spatial planning in Indonesia: an opportunity and challenge”. This forum to building an ICM management network in East Asian countries. And Prof. Ario Damar had the opportunity to be one of the resource persons for this activity.



# 16 Workshop Penulisan Artikel Populer

26-27 October 2021, Beihai, China

This event is one of the collaborations between the Department of Aquatic Products Technology and the Good News From Indonesia (GNFI) media. Here, Lecturers and teaching staff of THP-FPIK IPB are trained in writing popular articles from the results of scientific research or their respective experiences. In this activity, participants were given material on how to write popular articles and were given direct assistance when compiling popular articles.

This training provides participants with insight into writing popular articles to be published in the mass media, both print and digital. This popular article is expected to provide useful information for the community (SDGs 11) and have the opportunity to collaborate with various parties (SDGs 17).



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From the activity of producing popular articles that are ready to be submitted to the Good News From Indonesia (GNFI) media so that scientific information, especially in the field of fishery product technology, can be understood and useful for the wider community. The community gets information about the utilization and processing of fishery products.





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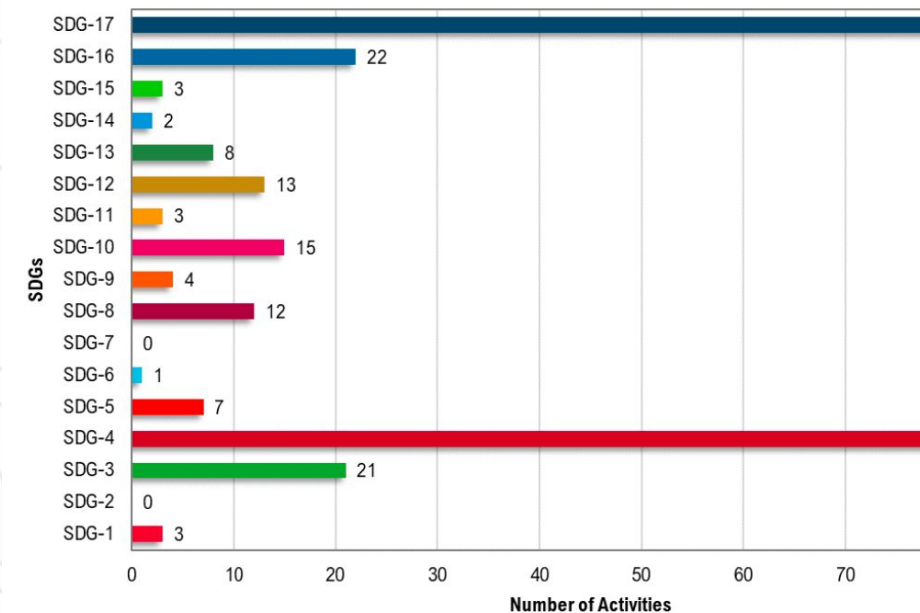
# Student Activities

# 17 Contributions of student activities at FMIPA to the achievement of the SDGs

Student activities at FMIPA are managed by various student organizations, at the faculty and departmental levels. Student organizations (Ormawa) at the faculty level consist of the Student Executive Board (BEM), the Student Representative Council (DPM), and SERUM-G. At the study program or department level, student activities are conducted under the auspices of the student's professional association (Himpro). Currently, there are 9 Himpros, each of which represents department or undergraduate study program at FMIPA. During 2021, a total of 275 student activities have been held by all ormawa in FMIPA. Each activity has a relationship and contribution to the achievement of the SDGs targets as shown in the graph.

From the mapping of the relationship between activities and the SDGs, the contribution of student activities at FMIPA IPB to the SDGs covers almost all of the SDGs goals, except SDGs-2 and SDGs-7. Student activities predominantly contribute to the achievement of quality education (SDG 4) as many as 79 activities and partnerships for the goals (SDG 17) as many as 80 activities. Furthermore, there are more than 20 activities related to the achievement of strong institutions (SDG 16) and the goal of achieving good health and well being (SDG-3)

Contributions of Ormawa activities to the SDGs



# 18

## The Army IPB University team wins BIMWIKA Awards 2021

BIMWIKA Awards is a national level competition for students and vocational high school students in the field of BIM (Building Information Modeling) organized by the BIM and Research department of PT. Wijaya Karya (Persero) Tbk. Through this competition, it is hoped that it will accelerate the implementation of BIM and develop the potential of young, accomplished engineers from academics throughout Indonesia. BIMWIKA Awards 2021 is the 2nd competition event that has been successfully implemented by PT. Wijaya Karya. There are 6 categories contested in the 2021 BIMWIKA Awards, namely Building Modeling, Building Analysis, Road Modeling, Bridge Modeling, and Photogrammetry Surveys, as well as 1 category for vocational students, namely Smart Building Conceptual Design. This year the participants from the 2021 BIMWIKA Awards totaled 156 teams from 71 educational institutions from 18 provinces in Indonesia.

Through this competition, it is hoped that it will accelerate the implementation of BIM and develop the potential of young, accomplished engineers from academics throughout Indonesia.



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# Research, Innovation, and Bussiness

# 19

## Cultural based community empowerment in the tourism development context

This activity aims to assess: How far is tourism empowerment in the case study area? How are local communities empowered in the tourism development process? How can community culture influence the process and outcomes of empowerment? This research activity was carried out from March to November 2021, located in DKI Jakarta Province (Hope Island and Kelapa Island - Thousand Islands National Park), Banten Province (Citorek Kidul Village - Mount Halimun National Park - Salak) and West Java Province (Cidahu Village) – Mount Halimun Salak National Park) Indonesia has many potential attractions for tourism development.

Based on the TTCI Index, among Asia Pacific Countries, Indonesia ranks 6th for natural resource excellence, with several World Heritage natural sites and its rich biodiversity. On the other hand, Indonesia is also rich in cultural resources (ranked 38 out of 140), making community empowerment efforts more challenging. To determine the right strategy in empowering the Indonesian people with diverse cultures and locations, a deeper understanding of community culture and surrounding influences the process and outcomes of community empowerment is needed in more detail. Research findings can help researchers, development practitioners, and decision makers in planning appropriate community empowerment strategies in tourism development for specific community characteristics.



# 20 *Jala Citra I Aurora Expedition 2021*

13rd to 24rd August 2021, Halmahera and Papua Waters

The Jala Citra Aurora Expedition is a collaboration between the Indonesian Navy's Hydro-Oceanography Center (Pushidrosal) and various stakeholders at sea, such as researchers from government research agencies, universities, and private parties. Dr. Steven Solikin, one of the lecturers from the Department of Marine Science and Technology, Faculty of Fisheries and Marine Sciences, IPB University, had the opportunity to take part in the joint research. This joint research activity is part of a series of activities to commemorate the 100th anniversary of World Hydrographic Day 2021, which aims to uncover the mysteries and potential of natural resources in the Halmahera and Papuan Seas.



### Outcomes:

1. Expedition documentation in story map
2. Marine map update
3. Underwater features identification
4. National and international scientific journal publication

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1. Adding experience and knowledge related to natural resources in the Halmahera and Papua Seas
  2. Improving the quality of research that is multi/ inter/interdisciplinary
  3. Increase the number of publications
  4. Build and expand research collaboration networks between IPB University and universities and other agencies





# 21

## Blue Economic Cooperation between Indonesia and Seychelles, East Africa

26 November 2021, Jakarta (hybrid)

Indonesia and Seychelles are two archipelagic countries which have the same characteristics as the marine ecosystem is the largest natural resource capital. In order to strengthen cooperation between the two countries in the field of development of the Blue Economy, Ministry of Marine Affairs and Fisheries of the Republic of Indonesia through the Marine Research and Development Agency and Fisheries held a Strategic Cooperation Discussion. The Blue Economy between Indonesia and Seychelles with the theme:

Blue Economy: Opportunities for Collaboration and Investment. In this discussion, Lecturers of the MSP Department, FPIK, as well as researchers Senior Division of Socio-Economic Policy and PKSPL Policy Coastal and Marine, Dr. Adrianto was invited as a reviewer.



### Outcomes:

Dr. Luky Adrianto presents BEDI instruments (Blue Economy Development Index) as a tool for measure the progress of blue economy development. Adrianto, who is also trusted as the chief scientist BEDI development for the Archipelago States Forum and Islands (AIS), presenting BEDI for Indonesia and Seychelles, where the Seychelles BEDI index is higher from Indonesia. This can be used as a momentum to strengthen the Blue Economy platform of both countries so that BEDI can increase in the future.

URL:  
<https://nasional.kompas.com/read/2021/12/01/19172921/indonesia-seychelles-bahas-kerja-sama-ekonomi-biru-menteri-kp-berikan?page=all>



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## Partnership FMIPA IPB University with Belitung Regency in Education, Research and Community Service Activities

FMIPA IPB University has collaborated with Belitung Regency since the signing of agreement contracts 4447/IT3.F7/KS/2018 and BP/PKS/JKT/X/18 for the exploration and protection of biodiversity in the National Geopark of Belitung Island. In 2021, the partnership direction will be developed further, specifically in the domains of education, research, and community service. To this end, the Regent and a delegation from Belitung Regency visited FMIPA in June 2021 to discuss and strengthen collaboration between the two parties.

The benefits include increased opportunities for lecturers/researchers to practice the tri-dharma of higher education in Belitung Regency, as well as increased studies/research in the fields of fisheries, grouper cultivation, and geomaritime potentials/development areas for capture fisheries and marine tourism, agriculture, and food security, experimental planting of the IPB 3S rice variety, and technology transfer for Taro plant tissue culture in Belitung. To strengthen the health sector's human resource capability for the development of Belitung herbal products/traditional medicines. Environmental sector (B3 Waste Management and Biospec construction of Kehati/Tahura Park in Belitung for the benefit of the people). Education is concerned with developing teachers' competence in mathematics and science, village development is concerned with the application of precise village statistics, and tourism is concerned with certifying sustainable tourism in diverse tourist destinations/villages.



# IPB University Holds Discussion with Fukuoka University Regarding Future of Partnership

On July 8th, IPB University has held a virtual discussion with Fukuoka University as a follow-up to the officiation of the Memorandum of Understanding (MoU) between both universities last December, 2020.

The general discussion was attended by the Vice Rector of Internationalization, Collaboration and Alumni Affairs, Prof Dodik Ridho Nurrochmat, the Director of Center of International Program, Fukuoka University, Prof Keiji Mishima, the IPB University's Director of International Program, Prof Iskandar Zulkarnaen Siregar, and the Vice Dean for Resources, Collaboration and Development of each faculty in IPB University

Prof Dodik explained that the discussion is a concrete step following the agreement of collaboration. The implementation of the partnership itself will focus on research of material science, environmental science and the sustainable development goals. According to Prof Iskandar, this partnership could result in summer courses, student exchange programs, joint research, joint international seminars, and even the assignment of adjunct professors.



## IPB University and KBRI Beijing Discussed Potential Vocational Education Collaboration with Chinese

IPB University through Directorate of International Programs held discussions with Embassy of Republic of Indonesia (KBRI) in Beijing regarding potential cooperation for vocational education on July 19th. The meeting was held virtually via Zoom Meeting and was attended by the Education Attache of KBRI Beijing, Yaya Sutarya, M.Pd., Dean of IPB University Vocational School, Dr. Arief Daryanto, IPB University Director of International Programs (DPI), Prof. Iskandar Z. Siregar, IPB University Assistant Director of International Cooperation and Networks, Dr. Dase Hunaefi, and IPB University Leading Research Laboratory Staff, Muhammad Majidu.

Prof. Iskandar said that IPB University had carried out various collaborations with universities in China on the maritime, agriculture, and food fields. "We also provide postgraduate scholarships to IPB University alumni to studies in China. There is a need to make contact with vocational-based universities within the framework of the transformation of vocational schools in Indonesia. It is also to strengthen the implementation of the policy of Kampus Merdeka Merdeka Belajar", he said. According to Dr. Dase Hunaefi, IPB University already has 14 collaborations in China. "In the future, we will focus on strengthening the exchange program", he said. Dr. Arief Daryanto added that in the future IPB University Vocational School will upgrade the education program from Diploma 3 to Diploma 4



# 25 Indonesia-Vietnam Maritime Partnership

26 November 2021, Jakarta (hybrid)

The Indonesian Embassy in Hanoi in collaboration with the Diplomatic Academy of Vietnam and the University of Indonesia's Center for Sustainable Ocean Policy held a Roundtable Discussion on Building the Indonesia - Vietnam Maritime Partnership which raised two major topics, namely (1) Maritime Safety and Security Cooperation; and (2) Deepening Strategic Maritime Economic Partnership : Sustainable Marine Economy. In the RTD, the MSP FPIK-IPB lecturer as well as a senior researcher in the field of Socio-Economic and Coastal and Marine Policy PKSPL, Dr. Luky Adrianto was invited to provide insight in the Sustainable Marine Economy session.

This partnership To improve bilateral relations between Indonesia and Vietnam specifically in marine economy.



## Outcomes :

Dr Luky Adrianto offers a collaborative ecosystem in the Blue Economy, known as VIBEI (Vietnam-Indonesia Blue Economy Initiative). In this ecosystem, the two countries can create three role models in the blue economy. These are the Sustainable Fisheries Role Model, the Sustainable Ocean Health Model and the Sustainable Marine Tourism Model. With these three role models, he continued, it is hoped that Indonesia and Vietnam can share experiences, joint research and capacity building and others.



# 26 Water Research Collaboration

IPB University's Center for Environmental Research (PPLH), The Norwegian Institute for Water Research (NIVA) and The Center for Southeast Asian Studies (CSEAS) monitor plastic waste in the Citarum River tributaries. This research is part of the ASEAN-Norwegian Cooperation Project on Local Capacity Building for Reducing Plastic Pollution in the ASEAN region (ASEANO). This ASEANO program involves several institutions in carrying out research on plastic waste. Such as IPB University, University of Indonesia, Padjadjaran University and the Indonesian Institute of Sciences (LIPI) Limnology. The results of the research by these various institutions are expected to build capacity to tackle plastic pollution from major sources in the ASEAN region through increasing knowledge about the sources, releases, transportation, and pollution of plastics.



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# 26

## Research Collaboration for Sustainable Improvement of The Sustainable Pineapple Cultivation System Through Agriculture Soil Rehabilitation in Lampung

In an effort to prepare for the implementation of the Kedaireka research or "Matching Fund" 2021 in collaboration with DUDI (Business World and the Industrial World) with the theme "SUSTAINABLE IMPROVEMENT OF THE SUSTAINABLE Pineapple Cultivation SYSTEM THROUGH AGRICULTURAL SOIL REHABILITATION PT. GREAT GIANT PINEAPPLE IN LAMPUNG PROVINCE", PT GGP represented by Mr. Afritedy Limin PhD from R&D and Mr Kevin Rahardja as Head of Business and Expansion Division of PT GGF holding visited the Department of Agronomy and Horticulture IPB to confirm the main research material of Soil Sement for research FORMULATION, ENGINEERING AND APPLICATION OF "PERFECT FERTILIZER" SLOWLY AVAILABLE WITH RAW MATERIALS OF INDUSTRIAL WASTE Pineapple, NPK FERTILIZER AND "Fly Ash -Bottom Ash" from coal. Dr Herdhata Agusta and Dr Dhika Prita Hapsari represented the Department of AGH IPB in the collaborative research engagement and also in its implementation will involve 3 undergraduate students to complete their thesis assignments.



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# Community Development



## Pemberdayaan Masyarakat Desa Korporasi Pertanian Terpadu-Berkelanjutan di Kabupaten Kapuas Kalimantan Tengah

The IPB Business School, in collaboration with the Transmigration Office of Kapuas Regency, carried out Community Empowerment Activities for Integrated-Sustainable Agricultural Villages through Mentoring and Training. The empowerment program was conducted in Rawa Subur Village, Kapuas Murung District, Kapuas Regency, for two months, from October to November 2021. The main activities in this community empowerment program are mentoring and training. The concept of mentoring for Corporate Villages aims explicitly to prepare managers to be able to design management and institutional tools properly, as well as oversee the physical development process of Corporate Village facilities. In addition, in the long term, this mentoring process is expected to produce managers who are able to manage the organization properly and correctly, carry out orderly organizational, operational and financial administration, manage and gain access to capital for business development, are oriented towards empowerment and development of the Rawa Subur village community, build cooperative relationships and partnerships with many parties. SB-IPB placed two competent assistant officers for two months living in the village. While there, they run community empowerment programs. The programs run by the assistants include strengthening the BUMDES institutional as the manager of the Corporate Village. BUMDES institutional strengthening is carried out by assisting the registration process for BUMDES legal entities, compiling BUMDES organizational equipment such as AD/ART, SOPs, Job Desks to the BUMDES financial procedure system.



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- 1. <https://www.dunia-energi.com/phe-onwj-lakukan-pembayaran-kompensasi-final-ke-warga-terdampak-tu-mpahan-minyak/>
- 2. <https://www.pertamina.com/id/news-room/energia-news/-phe-onwj-telah-selesaikan-pembayaran-kompensasi-awal>
- 3. <https://petrominer.com/phe-onwj-tuntaskan-pembayaran-kompensasi-awal/>



## Preparation of the Module for Capacity Building for Human Resources in the Lamunti-Dadahup Transmigration Area

The IPB Business School was appointed by the Ministry of Villages, PDT, and Transmigration to develop training modules to increase the capacity of the transmigration community in the Lamunti-Dadahup area. The preparation of the modules was carried out for one month, from June 15 to July 14, 2021. There were eight modules prepared by the SB-IPB team, namely the Horticultural Cultivation training module (chili, eggplant, red ginger, gelinggang, cucumber, pineapple, and shallot); Cultivation of Poultry Ducks and Tilapia; Goat Farming; Manufacture of Fertilizer and Animal Feed; Alsintan Functionalization and Maintenance; Corporate Management; Product Processing Industry; and Marketing Strategy/Product Marketing. SB-IPB cooperates with expert lecturers at IPB who are competent in their fields from various faculties as a module compiling team. The existence of this module is expected to increase the knowledge and skills of the community in utilizing and managing the potential of natural resources in the region. These eight modules are the primary materials used by trainers in training programs organized by the Ministry of Villages, PDT and Transmigration. The existence of these modules is essential because one of the important factors in the implementation of quality training programs is the existence of training modules that have material conformity with needs, are structured and directed so that the objectives of the performance can be achieved. In addition to compiling modules, the SB-IPB team also provides training to trainers who will later provide training materials contained in the module to the community in the area. Training to Trainers will be held online from 12 July – 16 July 2021 with a total of 165 trainers.



1. <https://www.dunia-energi.com/phe-onwj-lakukan-pembayaran-kompensasi-final-ke-warga-terdampak-tu-mpahan-minyak/>
2. <https://www.pertamina.com/id/news-room/energia-news/-phe-onwj-telah-selesaikan-pembayaran-kompensasi-awal>
3. <https://petrominer.com/phe-onwj-tuntaskan-pembayaran-kompensasi-awal/>



# 29

## Institutional Strengthening and Strategic Business Mapping of the Islamic Boarding School Business Association (HEBITREN)

The IPB Business School collaborated with Bank Indonesia to study the Institutional Strengthening and Strategic Business Mapping of the Islamic Boarding School Business Economic Association (HEBITREN). The study was carried out for four months, from April to July 2021. This study was chaired directly by the Dean of SB-IPB, Prof. Dr. Noer Azam Achsani, MS., with members of the study team being lecturers and SB-IPB researchers who are competent in their respective fields. The purpose of carrying out this study is to develop standard guidelines and rules that become a reference in mentoring activities and an appropriate economic development model based on the mapping of the classification of pesantren. This study is motivated by the existence of the Islamic Boarding School Economic and Business Association (Hebitren) as a forum for strengthening the independence of Islamic boarding schools aimed at encouraging the acceleration of economic strengthening of business units in Islamic boarding schools which are still not optimal so that a framework for strengthening Hebitren institutions is needed and a design for enhancing Hebitren institutions to encourage the formation of Islamic boarding schools. Hebitren Business Entity. In this study, the analytical method used is descriptive analysis, Cluster analysis, key factor analysis, biplot method, logit regression, and the Hebitren business map. The data requirements of this study were obtained from distributing questionnaires to all Islamic boarding schools in Indonesia that have joined Hebitren.



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1. <https://www.dunia-energi.com/phe-onwj-lakukan-pembayaran-kompensasi-final-ke-warga-terdampak-tu-mpahan-minyak/>
2. <https://www.pertamina.com/id/news-room/energia-news/-phe-onwj-telah-selesaikan-pembayaran-kompensasi-awal>
3. <https://petrominer.com/phe-onwj-tuntaskan-pembayaran-kompensasi-awal/>



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## The collaboration of the Halal Science Center of IPB with the Prov. Food, Marine and Fisheries Security Service (DKPKP). DKI Jakarta: Training and Competency Test for Halal Slaughterers in 2021

The 2021 Halal Slaughterer Competency Training and Test is an activity carried out on the basis of the collaboration between the IPB Halal Science Center and the Prov. DKI based on the cooperation contract Number 014/IT.3.L1.23/KS/2021. This activity was carried out by referring to SKKNI No. 196 of 2014 of 2014, to meet the competency standards of professional Halal Slaughterer (Juleha), in order to support the availability of safe, whole, healthy, and halal animal food ingredients (ASUH). This activity accommodates Halal Slaughterers who work in slaughterhouses (RPH), the Mosque Prosperity Council (DKM) and the Aksi Cepat Tanggap (ACT) Foundation in the Prov. DKI Jakarta. The competency test was carried out by a team from HSC IPB in collaboration with the Professional Certification Institute (LSP) of the Ministry of Agriculture through the Competency Test Place (TUK) of the Chinagara Animal Health Training Center (BBPKH) which has received a license from BNSP to carry out professional certification of Halal Slaughterers.



## Center For Tropical Animal Studies (CENTRAS) – LPPM IPB University collaborating with PRAMUKA designing “Serial Discussion on Animal Welfare”

At the Webinar activity “Animal Welfare Serial Discussion #1” which was held on Monday 15 February 2021 at 16.00-17.30, Deddy Cahyadi Sutarman, STP.MM as Secretary of CENTRAS representing the Head of CENTRAS (Dr. Ir. Afton Attabany M.Si) opened the event webinar by conveying the condition of animal welfare which currently has not optimally received protection from the government. Existing regulations have not been able to properly trap lawbreakers and have not been able to cause a deterrent effect. The first speaker Dr. Eko Sugeng Pribadi, M.Sc., DVM (As Chair of the CENTRAS Advisory Board and Expert in Medical Microbiology, Environmental Microbiology FKH-IPB) gave a related explanation: diseases from cats that can be suffered by humans including the characteristics, symptoms, and types of microorganisms that become the cause of infection and various alternatives in controlling the cat population. The second speaker, Laurien M. Islamy (Scouting Friends of Animals) gave various experiences in socialization and education activities carried out by Scouts for animal friends. In the discussion through the webinar, Johan Purnama BScV, M.Sc, DVM and Rangga Wisnu BSc. Hum as CENTRAS Researcher explained the need for understanding and campaigning about the relationship between animal welfare and zoonotic diseases that can harm humans.



Results from the webinar of “Animal Welfare Serial Discussion # 1; covering: 1. High frequencies on sadistic animal abuse showing off that the Indonesian community has a very low level on the animal welfare implementation, the existing laws have not given deterrent effect on perpetrators of animal violence. 2. Zoonotic diseases connecting with low level animal welfare needs to be understood by more parties, since the risk to human being is very high. 3. Population control is needed to prevent stray pet animal becoming pests, animal welfare principles must be considered. 4. Early age education on animal welfare clearly needed for Indonesian kids. 5. Implementation of animal welfare in Indonesia already started years ago, but the activist movement is still scattered. A national coalition forum is needed for the sake of parliamentary approaches to strengthen Animal Welfare Laws. 6. CENTRAS as an academic scientific research institution will stand as backup on scientific approaches for animal welfare implementation. 7. Massive campaign on animal welfare by national Institution such as PRAMUKA is really needed regarding the relationship of implementation of animal welfare and zoonotic diseases.

1. <https://www.dunia-energi.com/phe-onwj-lakukan-pembayaran-kompensasi-final-ke-warga-terdampak-tu-mpahan-minyak/>
2. <https://www.pertamina.com/id/news-room/energia-news/-phe-onwj-telah-selesaikan-pembayaran-kompensasi-awal>
3. <https://petrominer.com/phe-onwj-tuntaskan-pembayaran-kompensasi-awal/>



# 32

## Faculty of Agriculture IPB Signs Cooperation with DKI Jaya Center for Seed and Plant Protection

The Faculty of Agriculture, IPB, signed a collaboration with the DKI Jaya Seed and Plant Protection Center, on Friday (23/4). The signing of the collaboration was carried out at the Pasar Minggu Seed and Plant Protection Headquarters under the Food Crops, Marine and Agriculture Office. The signing agreement was attended by the Dean of the Faculty of Agriculture, IPB, Dr. Ir. Sugiyanta, M.Sc., Deputy Dean for Cooperation and Development Resources, Dr. Ir. Suryo Wiyono, M.Sc.Agr., Vice Dean for Academic and Student Affairs, Dr. Ir. Afra D. N. Makalew, M.Sc. and the Head of Department and Secretary of the Department of Plant Protection, Secretary of the Department and the Commission for Agronomy and Horticulture Education. After the signing was completed, the two of them had the opportunity to harvest cucumber and starfruit together at the Dinas garden located in Ciganjur.



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# 33

## Ministry of Coop and SMSEs, Ministry of Agriculture and IPB Develop Farmer Corporatization

The Ministry of Cooperatives and SMEs continues to follow up on President Joko Widodo's instructions regarding the Corporatization of Indonesian Farmers. This time, the effort was carried out by collaborating with the Ministry of Agriculture (Kementan) and the Bogor Agricultural Institute (IPB). The cooperation is contained in the MoU with the theme "Increasing National Food Production and Welfare of Corporation-Based Farmers" signed by the Minister of Cooperatives and SMEs Teten Masduki with the Minister of Agriculture (Mentan) Syahrul Yasin Limpo and the Dean of the Faculty of Agriculture IPB, Sugiyanta, at the Ministry of Agriculture, Jakarta, Thursday, 24 June 2021. MenkopUKM said that this collaboration was a manifestation of President Jokowi's mandate to improve the welfare of farmers through the corporatization of farmers.



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<https://nasional.tempo.co/read/1476570/kemenkopukm-kementan-dan-ipb-kembangkan-korporatisasi-petani/full&view=ok>



# 34

## The Ministry of Agriculture's BKP Collaborates with IPB to Strengthen National Food Security

To strengthen national food security, the Food Security Agency (BKP) of the Ministry of Agriculture cooperates with the Faculty of Agriculture, Bogor Agricultural University (IPB). "In building national food security, synergistic cross-sectoral support is needed both in programs and activities. Through collaboration with IPB, we hope that it will further strengthen national food security," said the Head of BKP, Agung Hendriadi in his speech at the Educational Gardens of the IPB Dharmaga Campus, Bogor. , West Java, Saturday (31/7/2021). In this collaboration, BKP provides Smart Greenhouse assistance, which is a set of buildings covering an area of 250 meters along with planting equipment as many as 8,000 hydroponic plant holes with an NFT system using modern technology.



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<https://tabloidsinartani.com/detail/indeks/teknolingkungan/18409-Bersama-Petani-Subang-IPB-dan-Prima-Agro-Tech-Giatkan-Pertanian-Bio-presisi>



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## Improve Competence and Absorption of Graduates, MOA with Binawan Training Center

IPB University Vocational School (SV) together with the Binawan Training Center Foundation signed a cooperation agreement in the fields of education, training, and employment, 19/10. The signing was carried out at the Executive Lounge of the Dean of the Vocational School of IPB University. This collaboration aims to improve the quality of Indonesia's human resources; improve the quality of vocational education graduates; and Increase the absorption of labor from vocational education graduates. Distribution of graduates will be conducted for graduates from the Agribusiness Management Study Program, the Seed Industry Technology Study Program, the Plantation Technology and Management Study Program, the Agricultural Production Technology and Community Development Study Program, as well as other relevant Study Programs according to predetermined criteria. Dr. Wawan Oktariza, Deputy Dean for Resources, Cooperation and Development of SV IPB University, said that this collaboration was intended so that IPB University Vocational School graduates could be well absorbed.



# 36

## Lecturer Services : Development of Tourism Villages

Synergy and collaboration between academics and village parties related to the development of tourist villages is important to do. These efforts were carried out through the activities of Lecturers Serving IPB University. Several IPB University lecturers were present at the Benteng Village Hall, Ciampea District, Bogor Regency on Thursday (30/9) to discuss the potential for developing a tourist village. The head of the Serving Lecturer Team, Muh Faturokhman, SPt, MSi explained that Benteng Village, one of the villages surrounding the Dramaga IPB campus has great potential in developing tourist villages. "This activity of serving lecturers is expected to be able to revive the tourism sector by developing agro-based tourism villages. In addition, its development can open employment opportunities for young people who are members of the management of tourist villages and drive the village economy," said this Lecturer of the Agribusiness Management Study Program at the Vocational School of IPB University. In this activity, he continued, identification of potentials and problems was carried out, mapping of potentials and problems and development of the concept of a tourist village. In addition, agro-based tourism village management training, program realization and program evaluation will also be carried out. Dr Budi Wahyu Priatna, a member of the Serving Lecturer Team, added that for village development, first it is necessary to re-photograph the potential of the village so that paths and attractions can be better mapped.



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