

# SUSTAINABILITY

ASEA  
UNINET

ASEAN-European  
Academic  
University Network

PEOPLE

PROJECTS

INITIATIVES

UNIVERSITIES

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ASEA-UNINET  
STUDENTS WEEK ON  
SUSTAINABLE DEVELOPMENT

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” THERE HAS BEEN NOTHING LIKE IT IN TERMS OF ENABLING THE GLOBAL COMMUNITY TO WORK ON AN ISSUE TOGETHER THAT NONE OF US CAN SOLVE ON OUR OWN.”

ANTÓNIO GUTERRES,  
UN-SECRETARY-GENERAL 2017

# ASEA-UNINET

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## ACADEMICS ARE EXPECTED TO MAKE CONTRIBUTIONS TO STRENGTHEN THE DEVELOPING COUNTRIES

The ASEAN European Academic University Network (ASEA-UNINET) is a network of universities, consisting of European and South-East Asian universities with the goal of promoting the continuous internationalization of education and research. Every year, more than 100 bilateral and multilateral ASEA-UNINET research projects, international workshops, conferences, summer/winter schools as well as networking events are conducted. There are no limits to the areas of academic cooperation. ASEA-UNINET research projects are interdisciplinary, ranging from Natural sciences, Technologies, Economics, Social sciences and Human Sciences to Medicine and Pharmacy. Besides the scientific focus of ASEA-UNINET, the network is characterized by the very tight personal relations of its participants.

The promotion of scientific, cultural and human relationships as well as personal contacts, scientific findings and collaboration are part of the mission of ASEA-UNINET.

As the global community continues to grapple with growing insecurities and uncertainties - billions continue to live in po-

verty, rising inequalities, conflicts, and glaring disparities in wealth and opportunity, amid climate change threats - the imperatives for sustainability become increasingly pronounced.

Sustainability puts emphasis on managing and promoting socioeconomic development with full consideration of ecological limits. Essentially, it seeks to balance the three dimensions of sustainable development: the economic, social and environmental, creating inclusive societies.

One of the key strategies devised to achieve Global Sustainable Development, emphasizing the United Nations Sustainable Development Goals (SDGs) adopted in 2015, is a revitalized global partnership that produces concrete policies and actions, mobilizes financial resources, and facilitates capacity-building and transfer of technology, particularly toward addressing the needs and priorities in developing countries. Governments, international organizations, business and other non-state actors, including academia, are expected to make contributions to strengthen countries of the Global South's scientific, technological and governance capacities.

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# UI GREENMETRIC WORLD UNIVERSITY RANKINGS

Universitas Indonesia (UI) GreenMetric World University Rankings is an initiative of UI, started in 2010. The aim of the ranking is to provide the result of an online survey on current conditions and policies related to Green Campus and Sustainability at universities all over the world.

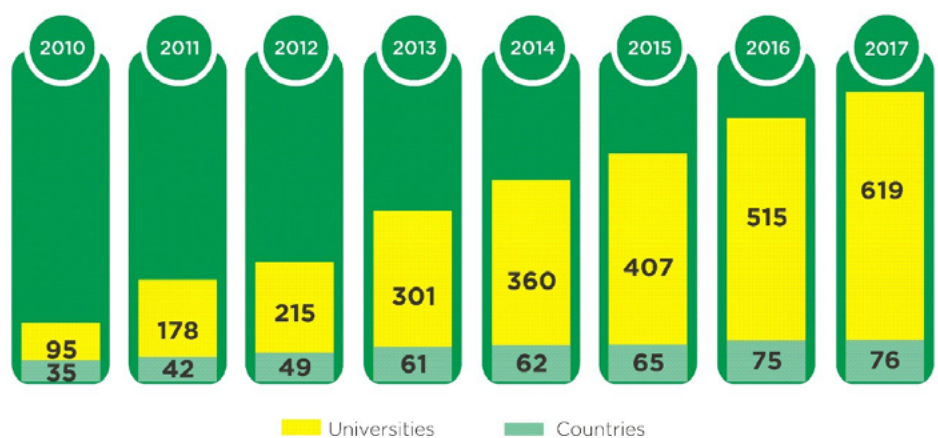
By attracting the attention of university leaders and stakeholders, it is expected that more focus will be laid on combating the impact of global climate change through green setting and infrastructure, energy and water conservation, waste management, green transportation and education. Such activities will require strong commitment from the university leaders and change of behavior from stakeholders in order to get more attention to environmental, economic and social issues related to campus sustainability.

UI GreenMetric collects data questionnaires, submitted by universities worldwide, and processes them systematically to reflect the efforts made by the institutions to implement environmentally friendly and sustainable policies and programs, resulting in an achievement-based ranking of the universities. The rankings support university leaders when placing eco-friendly

policies and managing behavioral change among the academic community at their respective institutions.

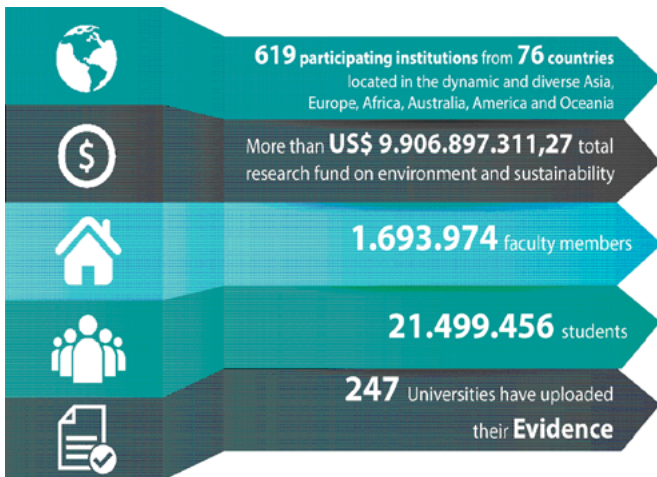
The participation at the UI GreenMetric Ranking is simple and doesn't require a registration fee. After login, the universities can submit data by filling in an online survey form. The period for submitting data to the online questionnaire ranges from May to October. The scores will be automatically calculated by the system, verified by reviewers, and published in the middle of December every year.

Last year, 619 universities from 76 countries around the world have been ranked. The number of participating universities significantly increased from 95 universities in 2010 to 619 universities in 2017 (Figure 1). This remarkable trend shows that UI GreenMetric World University Rankings has received increasing acknowledgement as a world university ranking on sustainability.



■ Figure 1. Number of UI GreenMetric's Participating Universities 2010-2017





■ Figure 2. Statistics of UI GreenMetric by 2017

The conduct of UI GreenMetric in promoting sustainability practices to universities in 2017 is based on 1,693,974 participating faculty members, 21,499,456 students and more than US\$ 9,906,897,311.27 total research funding on environment and sustainability (Figure 2). The participating institutions are located on all continents. Based on this, UI GreenMetric created a strategic network that includes universities around the world by creating UIGM network hub.

UI GreenMetric has been presented in IREG (International Ranking Experts Group) and ISCN (International Sustainable Campus Network) forums in Doha, Siena, and Vancouver. In June, August, September, and October 2017, nine technical workshops on UI GreenMetric have been conducted to encourage the participation of universities from Kazakhstan, Colombia, Brazil, Indonesia, Taiwan, Italy, Northern Europe, Thailand and Russia. These workshops are organized in collaboration among the UI GreenMetric team and hosted by universities including Kazakh National Agrarian University, El Bosque University, University of Sao Paulo, Diponegoro University, Green University Union of Taiwan, University of Bologna, Aalborg University, the Sustainable University Network of Thailand and RUDN University so far. The workshops aim at promoting UI GreenMetric participation and provide a platform to share experiences in creating green and sustainable campuses.

- ▶ 2017 UI GreenMetric Ranking Aggregate Score
- ▶ Registration for this year's UI GreenMetric University Ranking

#### 4<sup>TH</sup> INTERNATIONAL WORKSHOP ON UI GREENMETRIC

UI GreenMetric World University Rankings was pleased to organise the 4<sup>th</sup> International Workshop on UI GreenMetric (IWGM) in collaboration with Universitas Diponegoro from 8-10 April 2018 in Semarang. Further information on the Workshop is available via:

- ▶ 4<sup>th</sup> International Workshop on UI GreenMetric

For further information, please contact **Ms. Arsy Imanda:** Office UI GreenMetric World University Rankings, Integrated Laboratory and Research Center (ILRC) 4<sup>th</sup> Floor, University of Indoensia, Kampus UI Depok, Indonesia E-Mail: [greenmetric@ui.ac.id](mailto:greenmetric@ui.ac.id); Phone: +62 2129 120 936

# ASEA-UNINET STUDENTS WEEK ON SUSTAINABLE DEVELOPMENT

From 3-16 December 2017 the first ASEA-UNINET students week on Sustainable Development took place at Universitas Indonesia, Campus Depok. 35 students from Universities of Indonesia, Vietnam, Thailand, Malaysia, the Philippines, Myanmar, Pakistan and Austria participated in the two-week program which aimed at fostering awareness on the importance of sustainable development through interdisciplinary fields of study, field observation activities and discussions on the broad issues of sustainability.



## RICH IN DIVERSITY. DIVERSE IN DISCIPLINES. UNITED IN ONE OBJECTIVE: SUSTAINABLE DEVELOPMENT

In order to mediate a fundamental understanding on the extensive issues of sustainability, the participating students were invited to take part in a program of interdisciplinary lectures held by seven professors of Universitas Indonesia in the first week, issuing theoretical knowledge and current conditions in Indonesia.

### PREVENTION AND MITIGATION OF CONTAGIOUS DISEASES

*Dr. Dr. Sabarinah, Msc.*

Dr. Sabarinah introduced the participants to the health system of Indonesia including the administrative levels and the reformation of the system in terms of decentralization since 2000 in her lecture „Prevention and Mitigation of Contagious Diseases“. Strokes, traffic accidents, coronary heart disease, cancer and diabetes rank among the top causes for disabilities and deaths in Indonesia today. Although the percentage of deaths caused by communicable diseases decreased from 1990 to 2010, they still account for 33% of all deaths in Indonesia, emphasizing the burden of communicable diseases for the population. In contrast, in Austria the percentage of deaths caused by communicable diseases made up only 3 % already in 2014 .

In Indonesia Public Health Centres called „Puskesmas“

play an essential role for the countries healthcare, providing primary health services, inpatient as well as outpatient care for sectoral areas with up to 40,000 people.

Besides offering treatment for communicable diseases, recording and observing patients' symptoms, Puskesmas-Health Centers also claim responsibility to inform about environmental health, healthy nutrition etc.

### ECONOMIC WELFARE AND DEMOGRAPHY

*Dr. Prijono Tjiptoherijanto*

Dr. Prijono Tjiptoherijanto, Professor for Economics, focused on a series of current challenges in Indonesia related to “Economic Welfare and Demography”.

Indonesia is currently witnessing a demographic dividend era with an expected peak in 2020, in which the proportion of people in the productive age is greater than the proportion of people in the non-productive age. As a consequence, an increase in urbanization, democratic development, economic growth and life expectancy are approaching. Having said this, the Indonesian government faces the challenge to implement appropriate policies to ensure and provide decent employment opportunities for the population. In addition, appropriate employment stra-

tegies are needed to avoid demographic disasters and to benefit from the prosperous demographic era.

However, in capitalist economies, economic growth is as well coupled to a growing environmental impact, resulting in a severe necessity for a national and global sustainable development strategy. Followed by a series of remarkable initiatives, conferences and frameworks including inter alia the United Nations Conference on Environment and Development in Rio de Janeiro in 1992, the International Conference on Population and Development (ICPD) in Cairo in 1994, the Gender and Women's Empowerment in

China in 1995, the United Nations Millennium Development Goals launched in 2000, the Sustainable Development Goals (SDGs) were adopted by 193 countries and members of the United Nations in 2015, emphasizing the global awareness for sustainable development.

#### PROTECTION OF COMMUNITY RIGHTS

*Prof. Dr. Budi Anna Keliat*

Doctor of public health and human rights activist Prof. Dr. Budi Anna Keliat discussed two severe problems that In-



■ Josko Emrich, Deputy Head of Mission, Austrian Embassy of Indonesia and Prof. Melda Kamil Ariadno, ASEA-UNINET Coordinator for Universitas Indonesia with participants of the ASEA-UNINET Students Week 2017 at Universitas Indonesia, Campus Depok



Indonesia is currently facing: mental health disorders and the protection of community rights. On a global scale, mental and substance use disorders increased in recent years. Despite several initiatives, today people with mental disorders continue to face severe deficiencies regarding basic human rights: Affected individuals have to deal with social exclusion, a lack of treatment, denial of basic human rights such as shelter, food, clothing and discrimination in the fields of employment and education. In Indonesia, 15 million people (6 % of the total population) suffer from mental emotional disorders. 60,000 people with severe mental disorders are held in “Pasung” by their families, which means that patients are kept in confinement or are kept physically restrained with iron shackles or blocks of wood. Appropriate care and intervention opportunities for mental illnesses are very costly and cannot be afforded by many families. In addition, a lack of knowledge about mental illnesses as well as fear causes many families to keep their affected loved ones in “Pasung”, providing them only with insufficient family-treatment and care.

To improve the situation, community mental health nursing services have been established to provide comprehensive mental health and social care services in community-based settings. A special nursing care unit e.g. identifies patients kept in confinement and coordinates releases with community leaders, educates families on ways to cope with the situation in an appropriate way and refers patients to continuing care services. On a global scale, the World Health Organization aims to increase the service coverage for severe mental disorders by 20 % until 2020.

#### BIODIVERSITY PRESERVATION AND POVERTY ERADICATION

*Prof. Jatna Supriatna, M.Sc.,*

*Ph.D, Prof. Dr. Bambang Shergi Laksmo, M.Sc*

In her lecture Prof. Jatna Supriatna, M.Sc., Ph.D highlighted the great biodiversity of Indonesia and related problems, including palm oil production, fish production and biopharmacy. Indonesia is the third largest fish producer, home to 25 % of the world's biodiversity of fish and corals and has the highest diversity of bananas in the world. While counting three million plants, 6,000 can be used for food and 2,500 serve medical usage. Having in mind the importance of ecosystem services and biodiversity for a stable environment and the basis of human life, a change in resource use

■ Impression of a lecture during ASEA-UNINET Students Week



is indispensable, as land privatization, the expansion of palm oil plantations, massive amounts of plastic waste etc. and the consequences of global climate change pose a severe threat to Indonesia's ecosystems and biodiversity.

Prof. Dr. Bambang Shergi Laksmo presented the topic of poverty eradication, including an integrated perspective on environmental costs, externalities, human costs and the correlation with poverty in Indonesia. To foster a sustainable biophysical and human environment, Prof. Dr. Laksmo further introduced the concept of Social Impact Assessment (SIA). SIA helps to identify people and groups affected by projects or plans, which potentially harm environment and societies. In addition, the tool provides support to foster trust and cooperation within affected groups and offers a basis to develop and prepare mitigation measures to avoid, reduce and manage adverse impacts.

#### WASTE AND WATER MANAGEMENT

*Dr.-Ing. Ir. Dwita Sutjiningsih, Dipl. HE*

Dr. Dwita Sutjiningsih discussed country-specific challenges related to watershed protection, water engineering, groundwater management, shallow water hydrodynamic and flood disaster risk management and introduced Universitas Indonesia's Cascade-Pond System. Universitas Indonesia Campus Depok has a size of 300 hectares, including the UI Cascade-Pond system Danau K.A.M.P.U.S





■ Field trip to Bogor Botanical Gardens



■ Field trip to PUSKESMAS Pasar Rebo



■ Field trip to Yayasan Bambu Indonesia

covering an area of 22.7 hectares and comprising six ponds embedded in the mid of a high-density urban area. Challenges surrounding the campus include land use, grey water management and solid waste management. E.g. in the Beji neighborhood more than 70 % of solid waste is collected and disposed in temporary dumps.

## HUMAN CULTURE

*Prof. I Ketut Surajaya. M.A.*

Prof. I Ketut Surajaya focused on human culture and the dynamic change in Indonesia. Cultural identity, as part of a person's self-conception, influences values, humor, hopes, loyalties, worries, fears and as well the way people co-operate, adapt to natural surroundings, handle economic matters, learn and act. Indonesia is home to 1,340 ethnic groups, 742 ethnic languages and 740 ethnic cultures on 17,504 islands, emphasizing the challenge when it comes to protecting the country's wealth of culture. When talking about culture and sustainable development, questions occur, including indigenous culture of agriculture and compatibility with sustainable issues, traditional culture and compatibility with a healthy lifestyle, national education in different ethnical and traditional cultures, gender equality in religion and traditional contexts of Indonesia, elevating economic growth without harming indigenous cultures etc.

## FIELD OBSERVATION

The program of the ASEA-UNINET Students Week included three field trips which aimed at conveying real-life insights and practical experience. At PUSKESMAS Pasar Rebo Centre the history, system, values and challenges of the Indonesian health system were demonstrated. At Bogor Botanical Gardens, operated by the Indonesian Institute of Sciences, the students had the possibility to discover the great diversity of Indonesia's flora and fauna on an area of 87 hectares with almost 14,000 different kinds of trees and plants. The Bogor Botanical Garden's long-lasting research and conservation practices caught the students' special interest. On the third field trip the students had the possibility to explore the authentic bamboo village of the Indonesian Bamboo Foundation at the „Yayasan Bambu Indonesia“, where they were introduced to bamboo furniture production and the bamboo housing of West Java.



” THE DIFFERENT DISCIPLINES PLUS DIFFERENT CULTURAL BACKGROUND ASSURED A PERFECT COMBINATION TO FIGURE OUT CASES RICHLY.”

INDRA KUSUMA WARDANI,  
UNIVERSITY ISI YOGYAKARTA, INDONESIA

- ▶ Sustainable Development Goals of the United Nations
- ▶ Universitas Indonesia
- ▶ Bogor Botanical Gardens

## CULTURAL & LANGUAGE EXPERIENCES

The program enabled students to gain further cultural insights through visits of historical Indonesian places, language classes and cultural workshops such as applying the traditional Batik-technique of wax-resist dyeing cloth-materials, learning the traditional Javanese dance “Sirih Kuning” and an Arumba Workshop, which is a kind of Indonesian folk music mainly conducted on bamboo instruments. The cultural experience was rounded off by a visit to Taman Mini Indonesia Indah, the Indonesian miniature park in East Jakarta. This 150-hectare exploring area captures Indonesia’s rich culture and nature with several park installations such as an area showing the traditional housings of all national provinces, a clothing and arts area and a green area displaying Indonesia’s flora and fauna.

After learning how to play Arumba themselves the previous week, the students were surprisingly asked to perform again at the performance venue Saung Angklung Mang Udjo (SAU), which the students were invited to visit in the frame of a two-day trip to the capital city of West Java and third largest Indonesian city, Bandung. At SAU a variety of cultural performances are being held by professionals, kids and various groups in a very authentic atmosphere. Amid the show, Angklung-instruments (traditional instrument out of bamboo) were distributed among all visitors in the audience. After a precise five minutes instruction by the conductor and his son, the visitors performed three songs including the “Pirates of the Caribbean Theme Song” themselves – and it was amazing.

After staying a night in Bandung City, the group explored the popular stratovolcano Tangkuban Perahu, located 30 kilometers north of Bandung, where visitors can walk along the edge of the impressive crater.

During the final days of the program, the students elaborated and presented group works on a variety of issues, challenges and opportunities regarding Sustainable Development, Indonesian conditions and a comparison with their home countries as well as diverted development strategies for Indonesia and countries of the Global South.





■ Excursion to Taman Mini Indonesia Indah, the Indonesian Miniature Park in East Jakarta

## ORGANIZATION BY UNIVERSITAS INDONESIA

Our special and sincere thanks for hosting and organizing the ASEA-UNINET Students Week 2017 go to the Universitas Indonesia team, headed by ASEA-UNINET Coordinator Prof. Melda Kamil Ariadno, who made it possible for this event to take place. Our special thanks also go to the entire organizational team and the many volunteering students including Ismi Rahmawati (Program Coordinator) and Alfrida Hutapea, Ridwan Esa Setiawan, Arif Wica Wibisono, Ningtyas Sekar Ayu, Desi Puji Setia Dinwati and Fitriana Verinska who implemented and facilitated the program and took exceptional and warm care of the participants.



**UNIVERSITAS  
INDONESIA**  
*Veritas, Probitas, Iustitia*

Photos by Mohammad Rahadiansyah,  
Katrin Christina Salbrechter and Katrin Detter





Luong Lan Phuong (University of Danang, VN), Muhamad Khamim Zikri Bin Mohd Nahrawi (Universiti Utara Malaysia, MY), Muhamad (Universiti Teknikal Malaysia Melaka, MY), Fadhlur Rahim Bin Azmi (Universiti Teknikal Malaysia Melaka, MY), Suwatt Booklerb (University of Leoben, AT), Muniza Shaikh (University of Karachi, Pakistan), Worada Jarupoonphol (Mahasarakham University, TH), Vu Thi Khanh (University of Vienna, Austria), Syafiq Munir Bin Ismail Munir (University of Malaya, MY), Yar Zar Soe (University of Mandalay, MM), Adnin Syaza Binti Jaafar (Universiti Teknologi MARA, MY), Dat Van Truong (University of Medicine and Pharmacy at Ho Chi Minh City, VN), Keith D. Nucum (University of the Philippines, PH), Kanokrat Buareal (Mahidol University, TH), Susilawati (Bogor Agricultural University, ID), Anati Dalimunthe (Thammasat University, TH), Anneraine Medina Colobong (Thammasat University, TH), Indra Kusuma Wardani (University of Indonesia, ID), Arindah Nur Sartika (Faculty of Medicine UI, ID), Mohamad Ichsana Nur (Faculty of Administrative Sciences, UI, ID).





“THE PROGRAM WAS SO INSPIRING. ALL PARTICIPANTS HAVE SHOWN AN OVERWHELMING COMMITMENT IN EXPLORING THE DIVERSITY OF INDONESIAN CULTURE. THIS PROGRAM HAS ACHIEVED SIGNIFICANT SUCCESS IN POPULARIZING THE CONCEPT OF SUSTAINABLE DEVELOPMENT VIA THE DEEP UNDERSTANDING OF THE CULTURAL ROOTS OF SCIENCE AND THEREBY ENCOURAGING INTERCULTURAL RESPECT AND APPRECIATION.”

SYAFIC MUNIR BIN ISMAIL MUNIR  
UNIVERSITY OF MALAYA, MALAYSIA

Amad Ridhwan Bin Othman (Universiti Utara Malaysia, MY), Nurayati Dabas (Chiang Mai University, TH), Katrin Christina Salbrechter (Montanuniversität Leoben, Austria), Linh (Vietnam National Academy of Music, VN), Katrin Detter (Technical University of Munich, Germany), Mohd Izzat Asyraf Bin Mohamad Kamal (Universiti Teknologi MARA, MY), Erina Pauline V. Molina (University of the Philippines, PH), Jasper (University of Indonesia, ID), Nurfaishah Baharuddin (Bogor Agricultural University, ID), Walid (Universitas Indonesia, ID), Pan Lu (Thammasat University, TH), Ristia Angesti (Universitas Indonesia, ID), Pratiwi Dyah Kusumo (Universitas Indonesia, ID) and seven more.

PARTICIPANTS OF ASEA-UNINET  
STUDENTS WEEK ON SUSTAINABLE  
DEVELOPMENT 2017

# INITIATIVES

## LOMBOK, INDONESIA

### WASTE MANAGEMENT BASED ON COMMUNITY THROUGH THE GREEN ECONOMY MOVEMENT

The idea of this community-based initiative is to develop a profound waste management program, driven by the existing waste problems in Central Lombok district:

First, causing ground pollution by littering waste still is found in the habits and behaviour of the community (from children to adults). Second, the citizens litter waste in rivers and on roadsides without feeling guilty and thinking about the ecological and social consequences. Third, governmental services (e.g. Balai Lingkungan Hidup) for the community, especially from the Temporary Disposal Site (TPS) to the Final Disposal Site (TPA) often encounter technical and non-technical obstacles.

Especially the community, the government and local organizations benefit from the project.

**Duration:** March 2018 to March 2019

**Project Team:** Nurul Isnaeni, M.A. (Lecturer/Researcher, International Relations), Ani Soetjipto, M.A. (Lecturer/Researcher, Gender Study), Fitria Sari (Graduate Student, Gender Study), Christian Pratama (Undergraduate Student, Environmental Engineering), Mohammad Rahadiansyah (Graduate Student, International Relations), Universitas Indonesia

■ **Mohammad Rahadiansyah**  
Universitas Indonesia

## KUALA LUMPUR, MALAYSIA

### ADOPTING A COMMUNITY PARK: THE WINGED-FRUIT TREES

Based in University of Malaya's (UM) Rimba Ilmu Botanic Garden, The Rimba Project (RIMBA) is a campus sustainability and urban conservation Living Lab with the mission to protect, document and promote biodiversity on the campus and beyond, in collaboration with UM's Department of Development and Estate Maintenance (JPPHB).

► The Rimba Project - Adopt a Community Park

For both, the campus community and the general public, RIMBA conducts guided walks, nature educational programs and provides capacity building and field skills training for volunteers to introduce ecologically sound principles in campus development. The objective of the project is to create a walk-in educational garden, where plants and animals coexist harmoniously with humans and to make the campus greener while helping the University to increase the Green Campus rank based on UI GreenMetric World University Ranking.

„I think there are several outcomes that can be generated, such as leveraging connections between lecturers and students and as well increasing the money contribution to the University.“

■ **Syafiq Munir Bin Ismail Munir**  
University of Malaya

■ Participants planting mangroves for coastal protection



LANGKAWI ISLAND, MALAYSIA

## NBOS VOLUNSHARING: INTERNATIONAL STUDENT EXCHANGE

The „National Blue Ocean Strategy“ (NBOS) is a unique and dynamic Malaysian national strategy platform, which brings together ministries, agencies, all levels of government and the private sector on a voluntary basis.

From **29<sup>th</sup> April to 1<sup>st</sup> May 2017** the NBOS Volunsharing International Student Exchange took place in Langkawi Island, Malaysia. The participants stayed at villagers' houses in Wang Tok Rendong Village to learn about culture including traditional dance, games, culinary and production, to visit and clean an orphanage, to plant mangroves for coastal protection and to clean beaches. The objective of the project was to support below average villagers, give children of the

village a moral boost and support in education, promote Malaysian culture and preserve nature and ecosystems.

**Participants:** Dr. Hendrik Lamsali, Dean of College of Business University Utara Malaysia, Dr. Farizal Rajemi, Director of International Affairs and Cooperation of University Utara Malaysia, Lecturers, Organizational Staff, Global Buddies Club University Utara Malaysia Committee and 30 International students

■ **Muhamad Khamim Zikri Bin Mohd Nahrawi**  
Participant of NBOS Volunsharing International  
Student Exchange, University Utara Malaysia

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