



UMS
UNIVERSITI MALAYSIA SABAH



UMS EcoCampus: Transforming Ideas Into Reality

UI Green metric Workshop 2017, Istanbul University
10 April 2017

1 Vice-Chancellor, Universiti Malaysia Sabah
2 Director, EcoCampus Management Centre
Universiti Malaysia Sabah



Facts & Figures

< GENERAL INFO >

Established
1994

Type
Comprehensive
University

What are these numbers about?
Please refer to signs

18,045 ^{A + A}

577 ^{B + B}

126 ^{C + C}

275 ^{D + D}

Number of Campuses **Three (3)**:



Kota Kinabalu
Main Campus



International
Campus, Labuan



Faculty of Sustainable Agriculture
(Sandakan Campus)



< UNDERGRADUATES >

64 Number of Undergraduate Programmes

Undergraduate Students
Enrollment (Full time)

15,342 ^A
Local

475 ^B
International

Exchange Undergraduate
Students

106 ^C
Inbound

236 ^D
Outbound

< POSTGRADUATES >

Student
Enrollment

2,703 ^A
Total

620
PhD
(Research)

962
Masters
(Research)

1,121
Course
Work

1,460 Full time
1,243 Part time

102 ^B
International
(Full time)

Exchange
Postgraduate
Students

20 ^C
Inbound

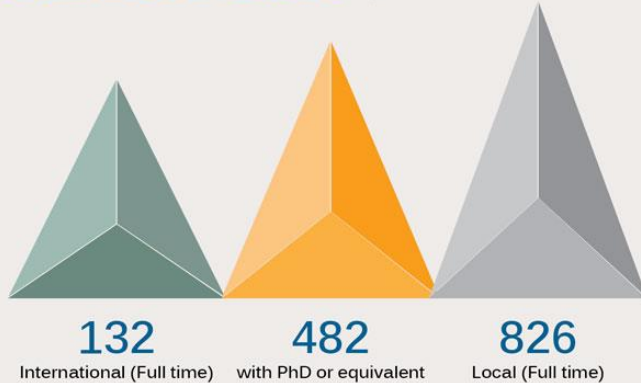
39 ^D
Outbound

< ACADEMIC STAFF >

1,056
Total

878
Full time &
Part time

178
Study
Leave

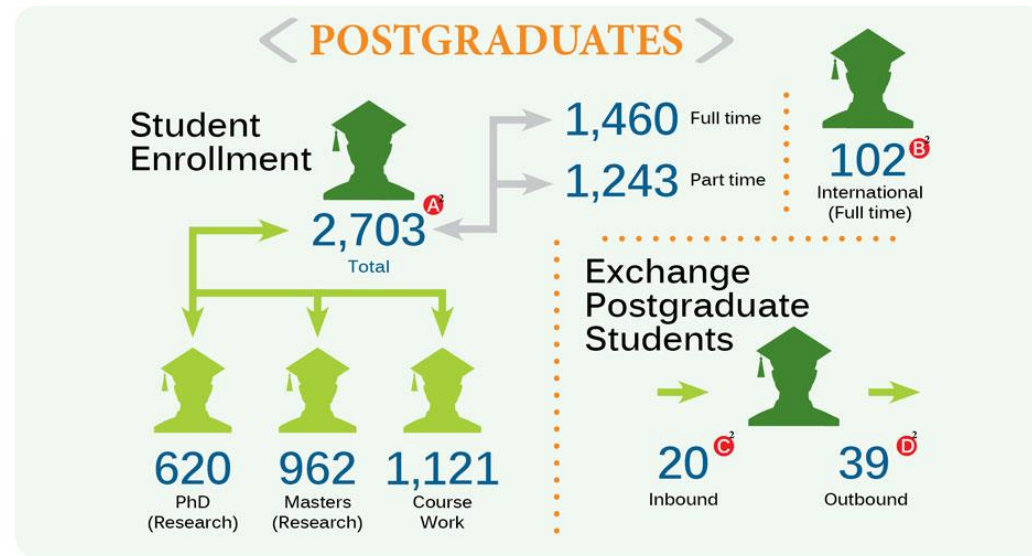


< ALUMNI >

52,120 ^A
Total

51,418 Local

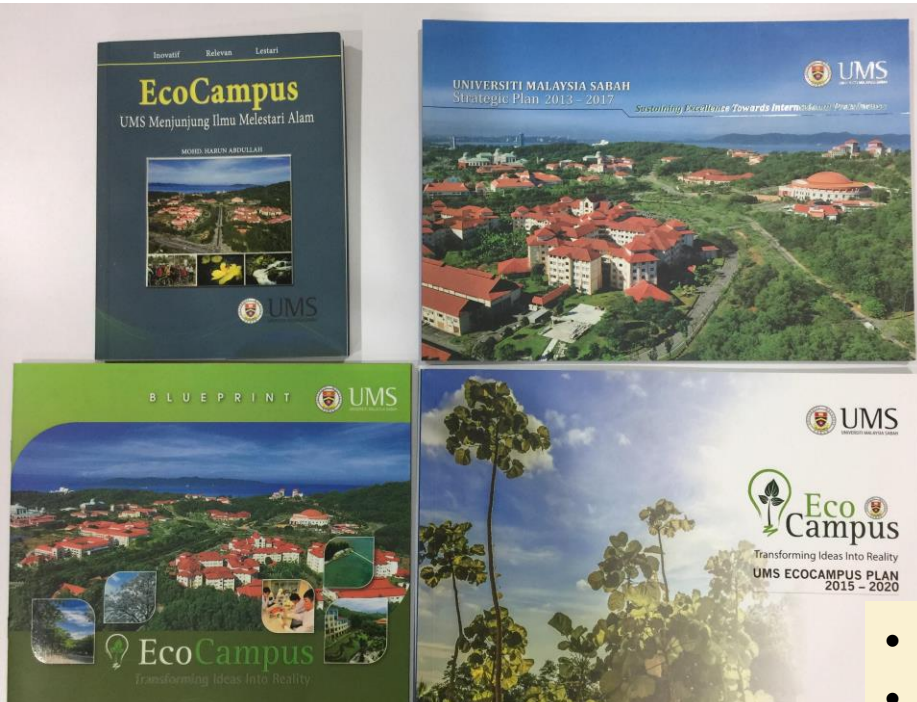
702 International



Our believe and commitment

- Recognize that our decisions and actions can have a significant impact on the environmental, economic and social dimensions of the region, at present and in future.
- recognize that fundamental changes need to be made in the way society thinks and acts towards sustainable development
- believe that this can only be achieved through the education and transformation of our values and lifestyles.
- incorporates environmental considerations in our planning and activities by being innovative, relevant and sustainable.

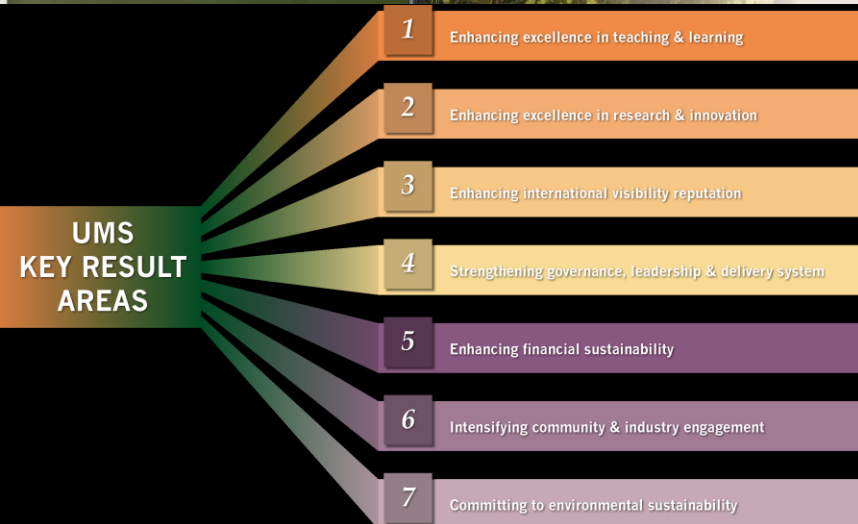
UMS Strategic Plan and EcoCampus Blueprint



Strategic Objective

- To rebrand UMS as an eco-campus
- To reduce UMS carbon footprint
- To increase environmental awareness among UMS student and staff, as well as the local community

Key Performance Indicators



- UMS EcoCampus Policy and Blueprint
- UMS EcoCampus Secretariat, Unit or Centre
- ISO14001:2004 certification
- International recognition in the environmental and green agenda
- Reduction in annual total amount (kWh) of electrical energy used
- Reduction in annual total amount (m³) of water used
- Reduction in annual total amount (ream) of A4 paper used
- Environmental awareness score of UMS students
- Environmental awareness score of UMS staff
- Number of environment related activities organized involving local communities

UMS EcoCampus Agenda

Vision

“The Universiti Malaysia Sabah will become a leading model of the “new flagship EcoCampus” of the 21st century. By redefining and “greening” our policies and practices in an ecologically-friendly context, we are setting new standards in campus management and our core activities of education, scholarship, research and innovations.”

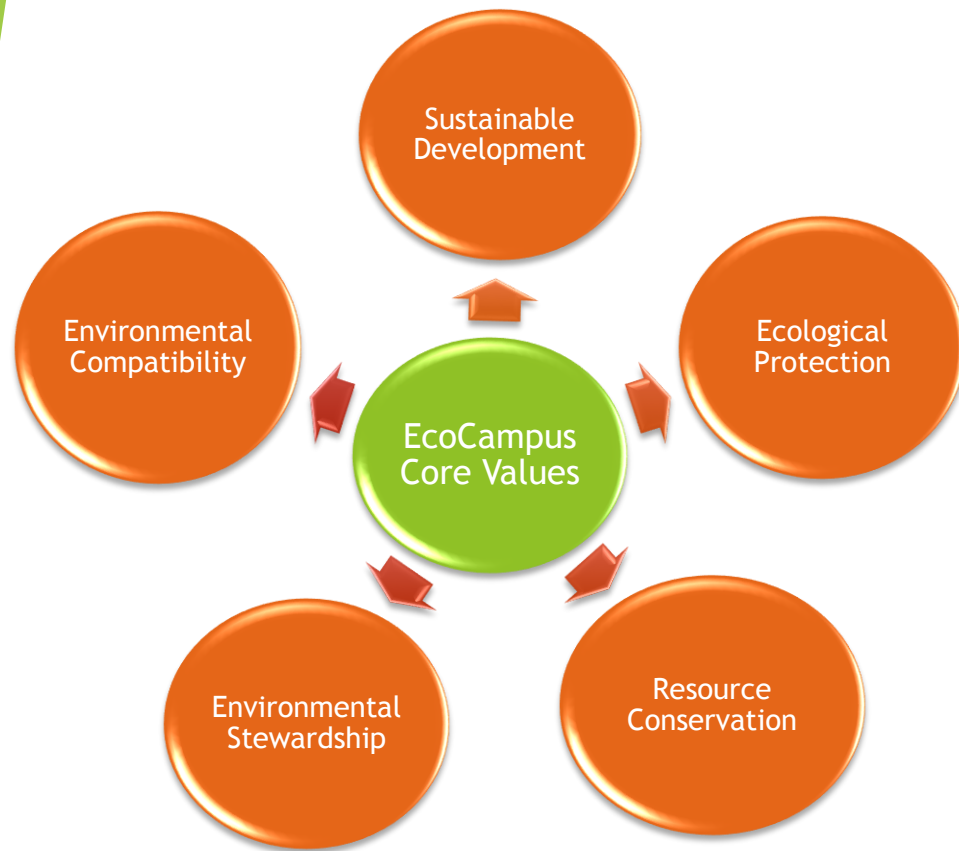
Policy Statement

UMS is committed to be a university of excellence in teaching and research, and an EcoCampus that incorporates due environmental considerations in its planning and activities by being innovative, relevant and sustainable. The environmental stewardship towards sustainable development will address local, national and global environmental challenges in collaboration with stakeholders.

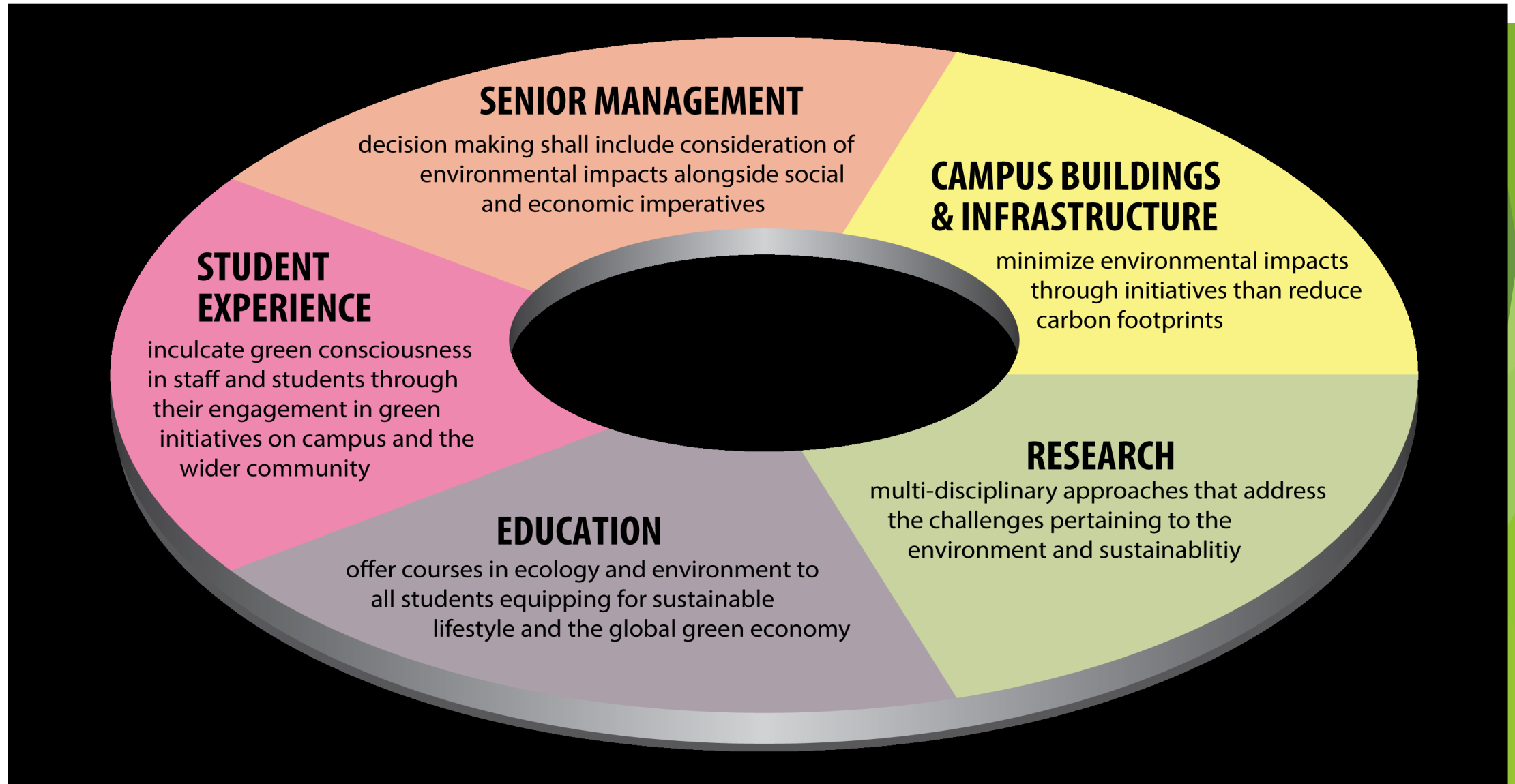
UMS EcoCampus: Definition & Aims

- A point of reference to act as a steward of the environment, contributing to global efforts towards sustainability by introducing environmental excellence in teaching and learning, research, infrastructure development, management and operational practices, and campus experience.
- Allows the institution to systematically identify, evaluate, manage and improve its environmental performance and practices through the [EcoCampus Transformation Plan](#)
- *The main aims are to promote environmental education and care, and moving towards environmental sustainability through good planning, and operational and management practices that will influence curriculum, teaching and research, and campus experience through leadership of the university*

EcoCampus Core Values & Key Elements

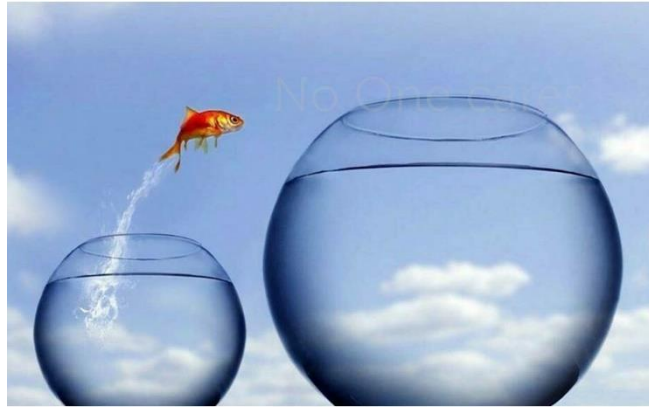


Engagement of the whole campus community



The challenge: Mindset change

Change Is **Good**



But It's Never **Easy** 😊

The crisis we face is first and foremost one of the mind, perception and values; hence it is a challenge to those institutions presuming to shape the minds, perceptions and values

(Source: Orr, D. W. 2004. Earth in Mind: On Education, Environment, and the Human Prospect, 2 nd edition. Island Press: Washington)



© Shanecradock.com

Source: <http://shanecradock.com/blog/how-to-change-your-mindset/>

UMS EcoCampus: Transforming Ideas Into Reality

The 7 steps approach



Step 7: Inform, Involve, and Celebrate Greening Achievements

practice green activities but celebrate their success.. Greening programs often help to unify the whole campus community and strengthen inter-departmental relations.

Step 6: Integrate Greening Principles into the Curriculum and Co-curriculum

integrated into existing curricula in science, art, humanities, math, language arts, or other disciplines and co-curriculum

Step 5: Monitor and Evaluate Progress

The EMC and green committees assist in monitoring and evaluating progress on the priorities in the action plan.

Step 4: Create and review the EcoCampus Action Plan

Committed to make changes by creating a realistic and achievable action plan and reviewing it from time to time

Step 3: Conduct an Environmental Audit

To identify priorities for action,

Step 2: Adopt an Environmental Vision Statement

Adoption at faculty, institute, department level based on the University vision and policy to enhance ownership and engagement

Step 1: Establish an EcoCampus Management Centre supported by various Green Committees

Planning, organizing, directing, coordinating, monitoring initiatives and activities

**Our initiatives:
Mindset change through engagement in
education and awareness programmes**

The EcoCampus Management Centre



Director

AP Dr. How Siew Eng



Assistant Registrar

Mr. Alvin Azril Mahat @ Mehah



Assistant Administrative Officer

Madam. Junaidah Lamjan



Administrative Clerk

Mr. Zulkefli Muhammad

Former Directors



**Dr Awangku Hassanal
Pengiran Bagu**



AP Dr Justin Sentian

Ownership & Engagement: Establishment of Working Committees

1. EcoCampus Main Committee
2. Setting & infrastructure & Landscape Committee
3. Waste Management Committee)
4. Energy and Climate change Management Committee
5. Water Management Committee
6. Transportation and Carbon Reduction Management Committee
7. Education and Awareness Committee
8. FEE Ecocampus Program Committee
9. EcoCampus Tourism Committee



Courses, Research, publication and conference related to EcoCampus agenda and environmental sustainability

Education (ED)	2016
Number of courses related to environment and sustainability offered	890
Total number of courses offered	2665
Total research funds dedicated to environmental and sustainability research (in US Dollars)	1063555
Total research funds (in US Dollars)	5356894
Number of scholarly publications on environment and sustainability published	248
Number of scholarly events related to environment and sustainability	86
Number of student organizations related to environment and sustainability	10
Existence of a university-run sustainability website	Available
Sustainability website address if available	http://www.ums.edu.my/ecocampusv2/

Undergraduates Program Offered:

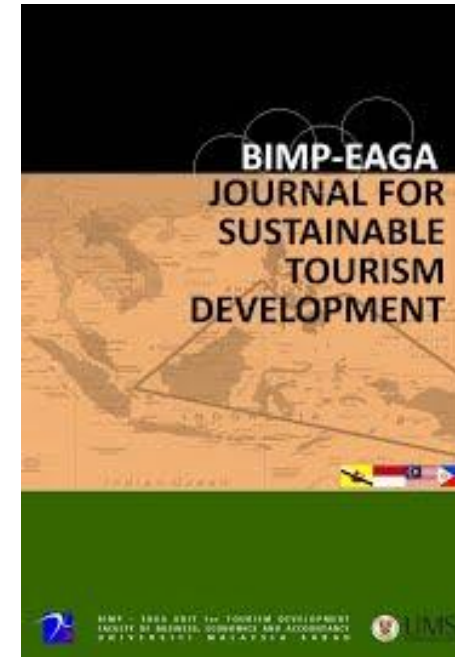
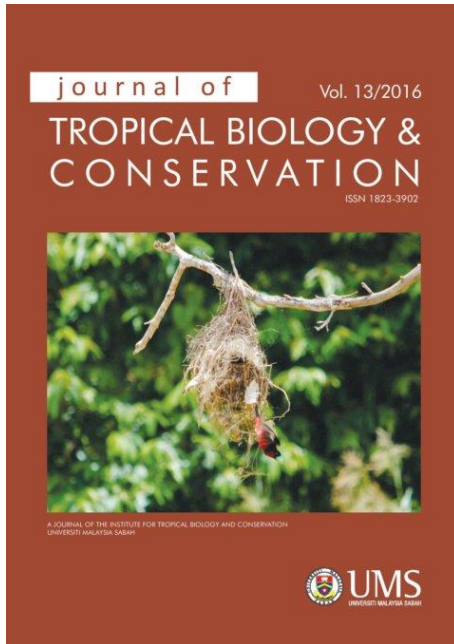
Faculty of Science & Natural Resources

1. Environmental Science
2. Conservation Biology
3. Marine Science
4. Nature Parks & Recreation
5. Forest Plantation & Agroforestry
6. International Tropical Forestry

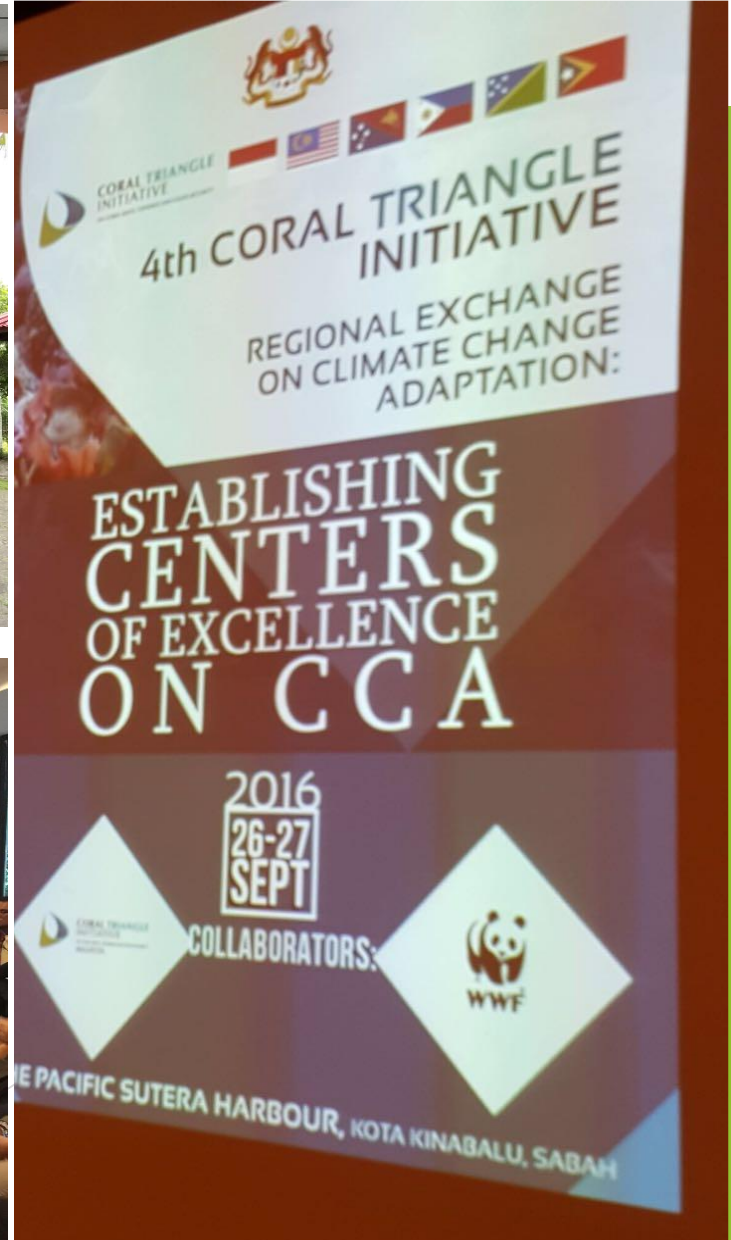
Faculty of Sustainable Agriculture

1. Horticulture & Landscaping
2. Crop Production
3. Livestock Production

Staff Engagement: Journals & Books published



Staff & Post graduate students engagement: Conferences



Staff & Student Engagement: Integrating into course: student survey project on ecocampus sustainability

THE SUSTAINABILITY 3R AMONG STUDENTS IN UMS

OBJECTIVES

- raise awareness of the importance of adopting a 3R mind-set with respect to our environment
- promote the innovative recycling and reuse of everyday materials, starting with plastic water bottles and to entrench a culture of 3R in UMS among students.
- to know Perception about 3R among the students
- to know 3R impact among the students

FINDING 3R RESULT

perception about 3R

3R Impact

60
50
40
30
20
10
0

Strongly Disagree Disagree Not sure Agree Strongly Agree

Do 3R program is beneficial... Do 3R program is burdening stu... Do 3R give values to the st... Do 3R program can help eco... Do 3R provides maintenance cos...

GROUP MEMBER

- 1) MO FARIS BIN SAIDINA
- 2) GHAZALI BIN SUHAILLY
- 3) MOHAMAD NOR SUHAILAM BIN SUHAILI
- 4) NORSAKINAH BT KEMAR
- 5) JUMILATI BT MOHAMMAD SALENG
- 6) IVVANNI YABU
- 7) NUREMILIA BINTI ZAHARUM
- 8) ADNAN BIN HUSSIN
- 9) SYIFA BT NOORIN
- 10) MUHAMMAD FARID BIN WELLO

Establishing Link Between UMS Eco Campus Department and Minor Environmental Clubs in UMS.

UMS
UNIVERSITI MALAYSIA SABAH
Eco Campus
Transforming Ideas into Reality

Lucey Elyverah Johnning, Al Nasrie Weli, Jocila Duanis, Christ Claudia, Joyita Antong, Jessica Jular, Junaria Sammeng, Nurhaida Ibrahim, Shabzibah Julius, Suhaini Iskandar

INTRODUCTION

This research aim to established link between the environmental bodies in UMS that is Eco Campus Department and other minor environmental clubs. We believe that cooperation between the environmental bodies increase the impact of the activities being held towards the UMS community. A better communication through the establish link will encourage the cooperation among the environmental bodies.

FINDINGS

- 90% respondent agree to the idea of their club operate under Eco Campus Department.
- 93.30% respondent agreed to create a link. They believe it improve the communication and information sharing.
- 88.30% respondent believe it increase the number of participant of environmental activity.
- 96.70% agreed it will bring more awareness towards UMS community.

SIGNIFICANT OF STUDY

- improve the effectiveness and succession on any environmental activity being held by the minor environmental clubs.
- make a uniform lineage for the minor clubs in UMS.
- Information are share and can be access easily.

ACKNOWLEDGMENT

We would like to acknowledge the cooperation of Green Team Club and Kelab Alam Sekitar members who generously spent their time answering the questionnaires. We also grateful to the guidance given by Mr. Datu Razali Datu Eranza.

METHODOLOGY

- Online questionnaires
 - > Green Team Club
 - > Kelab Alam Sekitar
- Interview Session
 - > Vice President of Green Team Club
 - > President of Kelab Alam Sekitar

contact:
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HE06 Financial Management and Banking Faculty, Business, Economic and Accounting University Malaysia Sabah
0011-2571231
lucey.verah@gmail.com

The Effectiveness Of Awareness Programme Towards Students In Practising Ecocampus Value.

DARSHENE D/O SUBRAMANIAM
FACULTY OF BUSINESS, ECONOMIC AND ACCOUNTANCY
shreedarshene@gmail.com
014-9340475

CORE VALUES

- SUSTAINABLE DEVELOPMENT
- ECOLOGICAL PROTECTION
- RESOURCE CONSERVATION
- ENVIRONMENTAL STEWARDSHIP
- ENVIRONMENTAL COMPATIBILITY

KEY ELEMENTS

- MINDSET CHANGE
- INFRASTRUCTURE DEVELOPMENT
- TEACHING AND LEARNING
- RESEARCH THEMES
- MANAGEMENT & OPERATIONAL PRACTICES

INTRODUCTION

Environmental sustainability is the ability to maintain the qualities that are valued in the physical environment.

In 2013, University Malaysia Sabah introduced the idea of sustainable (EcoCampus) accompanied by the Eco Campus Management Centre.

Programmes that been held in UMS

- EMS Awareness campaign
- Energy, water and paper saving programmes
- Research theme on environmental issues
- 3R Projects, Emission reduction project
- Eco Campus seminar and workshops
- Carbon footprint reduce
- Environmental leadership programmes

Ul-GreenMetric UMS RAMBANG 2016

44	6	2
173	66	7
245	78	7
2016	2016	2016

CONGRATULATIONS UNIVERSITI Malaysia Sabah

100 Questionnaires
I) FPEP - 50 students
II) FSMP - 10 students
III) FKW - 9 students

Six faculties
I) FPEP - 15 students
II) FSSA - 9 students
III) FSW - 7 students

FINDINGS

EFFECTIVENESS OF AWARENESS PROGRAMME TOWARDS STUDENTS IN PRACTISING ECO-CAMPUS VALUE

Disagree 2%
Neutral 43%
Agree 55%

Knowledge by attending EcoCampus programme

Knowing the benefits of EcoCampus values

EcoCampus brochures, templates and banners give awareness about the value

Ever attended a programme of Eco Campus

Barriers in Practising EcoCampus Values

Yes No

Limitation of resources discourages eco campus

Agree 56.70%
Neutral 42.30%
Disagree 1%

Awareness Campaign 74.50%
Outdoor Activities 12.50%

Eco Cycling 27.60%
Eco Run 17.20%
Eco Carnival 21.40%
Adventure Outing 19.80%

SUGGESTIONS OF PROGRAMMES IN PRACTISING ECO-CAMPUS VALUES

CONCLUSION

Many awareness programmes that have been held and circulated but there are still students who are not acknowledge of this programmes and values

Lack of time and interest has been their top reasons

Programmes Suggested :

- Weekly Awareness Quiz
- Every Course should take atleast one subject regarding Eco Campus values
- Programmes that include both Awareness Talks and practicals
- Merit points to the faculties which organize programmes in context of EcoCampus.
- Include criteria of Eco Values in programme proposal and also research proposal
- Competition on creating things using reusable item.
- Hostel/Colleges taking part in Organic planting and gardens.
- Education trip to other Eco Campus University

Staff & Student Engagement: Integrating into course: undergraduate student art work project using recycled materials



Campus Engagement: Ecocampus awareness week

EcoCampus Awareness Week 2013

Tentatives

6 May (Monday) : What EcoCampus Meant To You?

7 May (Tuesday) : "Support GREEN Campaign"

8 May (Wednesday) : Exhibition on EcoCampus

9 May (Thursday) : Closing Ceremony

Date: 6-9 May 2013 (Monday - Thursday)

Time: 8:00 am - 2:00 pm

Venue: School of Business & Economic

Organized by: BE 31703 Special Event Operation

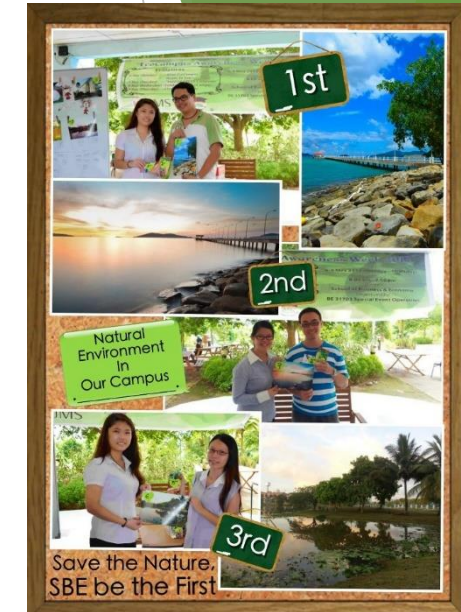
Supported by:



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UNIVERSITI MALAYSIA SABAH

Organized by:





Campus Engagement



Some best practices



Local community and industry engagement: Knowledge Transfer Programme & National Blue Ocean Strategy Funding

No.	PI	Titile
1.	Prof Datin Seri Panglima Dr. Ann Anton	Best Practices In The Ranching Of The Giant River Prawn <i>Macrobrachium rosenbergii</i> (Udang Galah) In Sg Petagas, Sabah - A Community-Based Stock Enhancement Programme
2.	Dr. Bonaventure Boniface	On-Site Production of Rubber Clones By The Kimaragang Community In Kota Marudu, Sabah-Transferring Technical Knowledge on Patch Budding For Rubber Smallholders Who Are Not A Part of The Rubber Planting Scheme
3.	Dr. Suzan Benedick	Optimisation of the economic potential of sustainable agriculture Dan Agro-tourism at Puteh (KOPEL)
4.	Ir. Pungut Ibrahim	Imparting optimized pico hydro energy system program to the villagers of kg. long pasia asal, sabah
5	En. Robert Francis Peters	Mediation of Rafflesia for Tourism; The Tourism Benefits Increment among Dusun Communities involved in the Rafflesia Conservation Initiative Scheme (RCIS)
6.	Dr. Fiffy Hasnidah Binti Saikim	Enviromental conservation and community capacity building at kg. tudan, tuaran sabah: Best ecotourism practice by utilizing the local natural resources
7.	Dr Jidon Adrian Janaun	Development of a Solar Dryer Prototype and a Hybrid Dryer Prototype for drying of paddy and oil palm fruit for rural area farmers and planters
8.	Prof. Madya Dr. Jualang Azlan Gansau	Tantadan (<i>Trigonal</i> sp) Rearing Project at Kiulu, Sabah
9.	Dr. Arbentin Bin Estim	Integrated Aquaculture (Aquaponics) Systems Using Green Technology for SMEs
10.	PM Dr. Rossita Shapawi	Aquaculture Farm Management: Optimizing Technology Maximizing Profit
11.	Dr. Md. Shafiquzzaman Siddiquee	Oil Palm Wastes Based Trichobiocompost: Green Technology Transfer To Local Industry As A Platform Of New Core Business
13.	Dr. Faihanna Ching	A Good Practice For Sustainable Sea Cage Farming FoR Coastal Aquaculture Industry
14.	Dr. Jidon Adrian Janaun	Using Laterally Aerated Moving Bed Technology For Drying Of Agricultural Biomass



Stingless bees honey project



Organic Mulberry project



School students and kids engagement

Friend of Bornensis Program



Korean students visit



AWARENESS PROGRAM
GLOBAL WARMING AND
CLIMATE CHANGE

25 MARCH 2017
(8.00AM - 1.00PM)

In conjunction with
EARTH HOUR

Game



Tree planting



Ecocampus kids



Girl guide beach cleaning



Campus
Transforming Ideas into Reality
Green Fun & Kids

Story telling



Exhibition



Sport

LARIAN ECO-CAMPUS UMS
Anjuran Exco Sukan Seni & Kebudayaan
Majlis Perwakilan Pelajar Sesi 2015/2016

Yuran penyertaan
RM 50 Orang Awam + Baju
RM 30 Pelajar IPT + Baju

Juara RM 700 + Medal
Naib Juara RM 500 + Medal
Ketiga RM 300 + Medal
Tempat ke-4 hingga 10 Saguhati + Sijil

Tarikh : 4 Jun 2016
Masa : 6.00 am - 2.00 pm
Tempat : Padang Kawad UMS

PELBAKANG AKTIVITI MENARIK AKAN DIADAKAN

UNTUK MAKLUMAT LANIUT, SILA HUBUNGI :
AIFA : 017 2860150
FAHMI : 012 4490469

Larian sepanjang 7KM



Sustainable leadership course



Dewan Canselor

Others Engagement

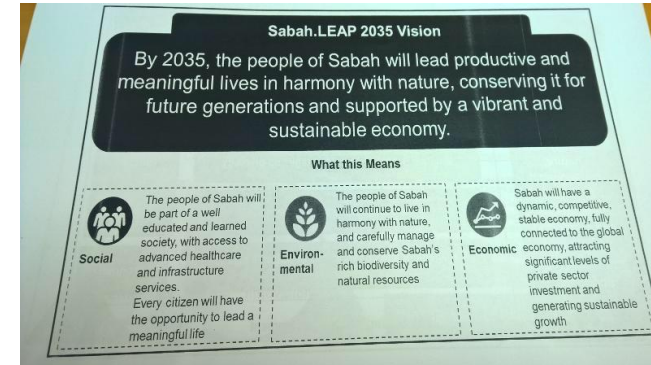
Various Ministries and national and state levels



LOI signing with Sustainability Energy Development Authority under Ministry of Energy, Green Technology & Water



Sabah state




SUSTAINABILITY WEEK OPENING CEREMONY AND JOINT TALK
COLLABORATION BY **DBKK AND JABATAN ALAM SEKITAR**

SPEAKERS:
1. MOHD FAUZI BIN MAHMUD (PEN. DENGARAH JABATAN ALAM SEKITAR)
2. LIZAWAN MATIN (PEGAWAI TADBIR DBKK)

Let's Make a Tradition. Aim a Greener Nation
DATE: 31ST OCTOBER 2016 (MONDAY)
TIME: 8AM - 11AM
VENUE: FKJ FOYER, UMS
***SDP POINTS PROVIDED**

Kota Kinabalu City Hall Initiative-LIFE



International Sustainable Campus Network

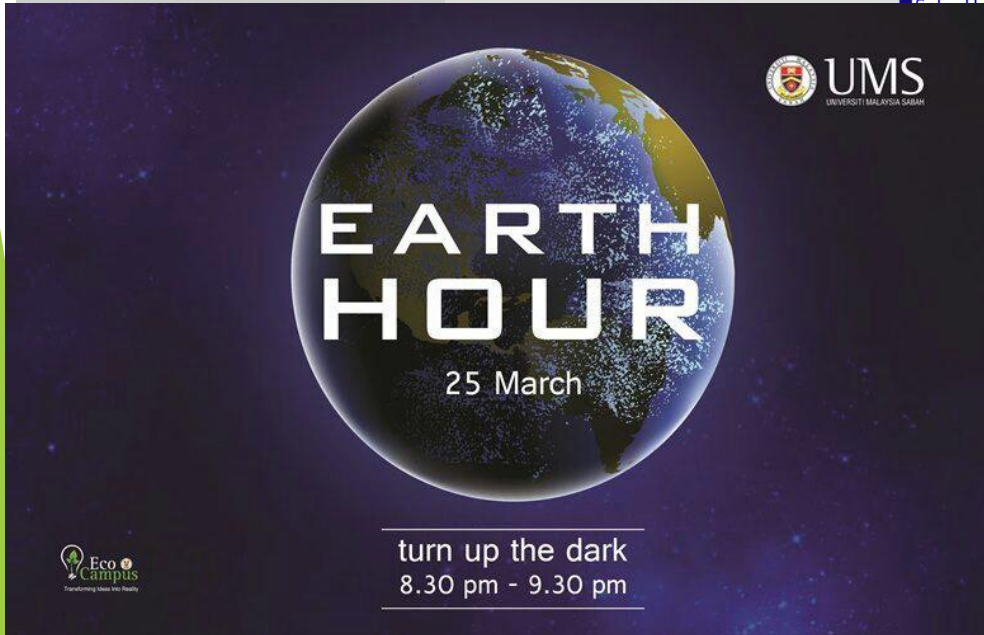


Our commitment and participation

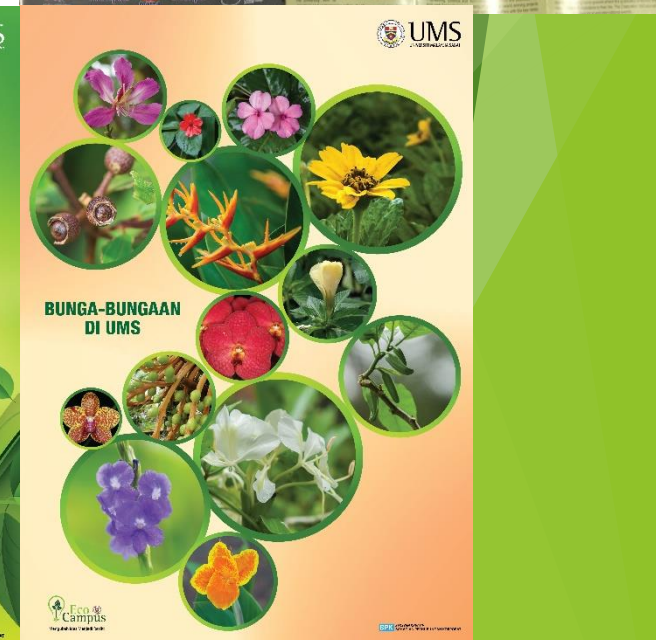


EWS | More ANNOUNCEMENT | More EVENTS | More
R AT KG. LOK URAI BORNEO CYBER SECURITY CHALLENGE Sat Mar 25, 2017 @ 8:00AM - 05:00PM

NEWS | More ANNOUNCEMENT | More EVENTS | More



Optimising Resources: EcoCampus Tourism



UMS achievement : Appreciation to all



Summary

- ▶ Being an institution of higher education in Sabah, UMS takes the lead to inspire present and future generations to think and act towards sustainable development.
- ▶ The university community plays a meaningful role in improving the acceptance of sustainable solutions. The transition towards EcoCampus has enable UMS to instill environmental excellence in decision-making and activities of the University
- ▶ Together, UMS and its stakeholders have committed and implemented many initiatives which are innovative, relevant and sustainable to transform ideas into reality.
- ▶ Mindset change through various engagement and initiatives allows the UMS community as a whole to become the agent for change towards a sustainable future.
- ▶ It is our wish that the UMS staff and students could be **proud ambassadors** of “the practice of what we preach” on campus.

Thank You

Acknowledgement

THE IWGM 2017 organising committee
UMS Staff & students
UMS Photographers

