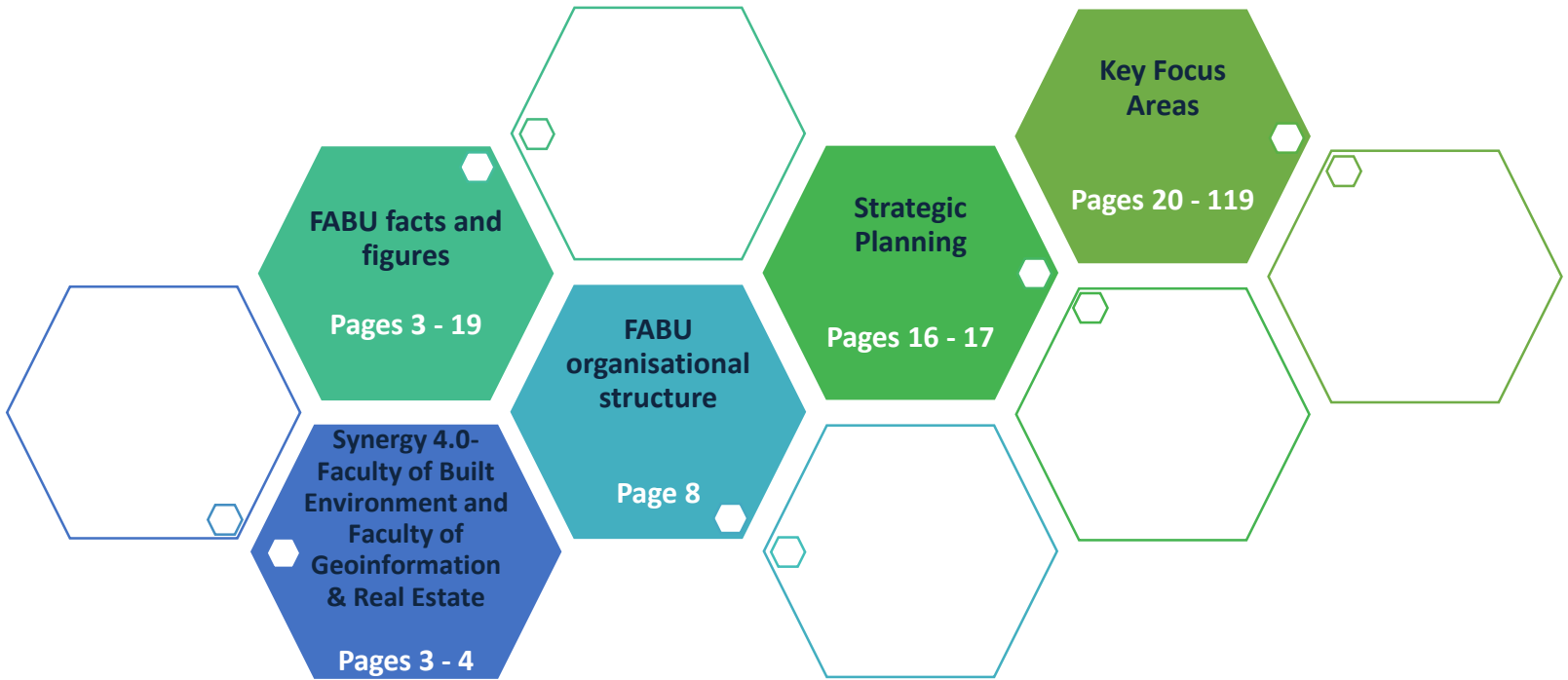




FACULTY OF BUILT ENVIRONMENT & SURVEYING

***STRATEGIC PLANNING
2019-2023***

CONTENTS



FAC. BUILT ENVIRONMENT & SURVEYING (FABU) BACKGROUND

1972 – Started as Faculty of Architecture at Jalan Gurney, Kuala Lumpur Campus.

1974 – Faculty of Architecture was renamed as the **Faculty of Built Environment** to reflect all programmes offered in the faculty; Architecture; Urban and Regional Planning and Quantitative Surveying

1985 – Moved to Skudai, the main campus of UTM in Johor. The faculty then had four departments namely Architecture; Urban and Regional Planning, Quantitative Surveying and Landscape Architecture until June 2018.

FAC.BUILT ENVIRONMENT (FAB)

FAC.GEOINFORMATION & REAL ESTATE (FGHT)

1972 – Started as Faculty of Surveying and it was one of the three faculties in the Institut Teknologi Kebangsaan. The fac. then had only two departments; Dept. of Land Surveying and Dept. of Real Estate Management and Valuation.

1979 – The Fac. was restructured by introducing four new departments namely Dept. of Real Estate and Valuation, Dept. of Astronomy and Geodesy, Dept. of Cadastral Surveying Engineering, and Dept. of Cartographic Photogrammetry.

1994 - The fac. was renamed as the **Fac. Surveying and Real Estate** with the mission of becoming a centre of excellence for surveying and Real Estate studies.

1997 - Changed to **Fac. Engineering & Geoinformation Science**. It had four departments: departments of Geomatics Engineering, Property Management, Remote Sensing, Geoinformatics and Land Administration

2010 - Changed again to **Fac. Geoinformation and Real Estate** and had two departments namely Real Estate and Geoinformation

FAB & FGHT SYNERGY



UTM

UNIVERSITI TEKNOLOGI MALAYSIA

Faculty of Built Environment and Surveying



1 JULY 2018

VISION & MISSION OF FABU

VISION

To be the faculty of choice for education and professional development in built environment

MISSION

We strive to develop professionals who are responsible towards shaping sustainable built environment through synergistic partnership with industries, professional bodies and alumni

DNA (CORE VALUES) OF FABU

C → **Creative** - Staff FABU will use their imagination and original ideas to form new and valuable research topics, teaching techniques, content etc.

P → **Progressive** - All staff of FABU will always strive to develop gradually in all aspects of teaching, research, professional practices, community services and administration.

C → **Collaborative** - We will work together with the industry, professional bodies, communities outside UTM and with different disciplines (trans disciplinary) within UTM

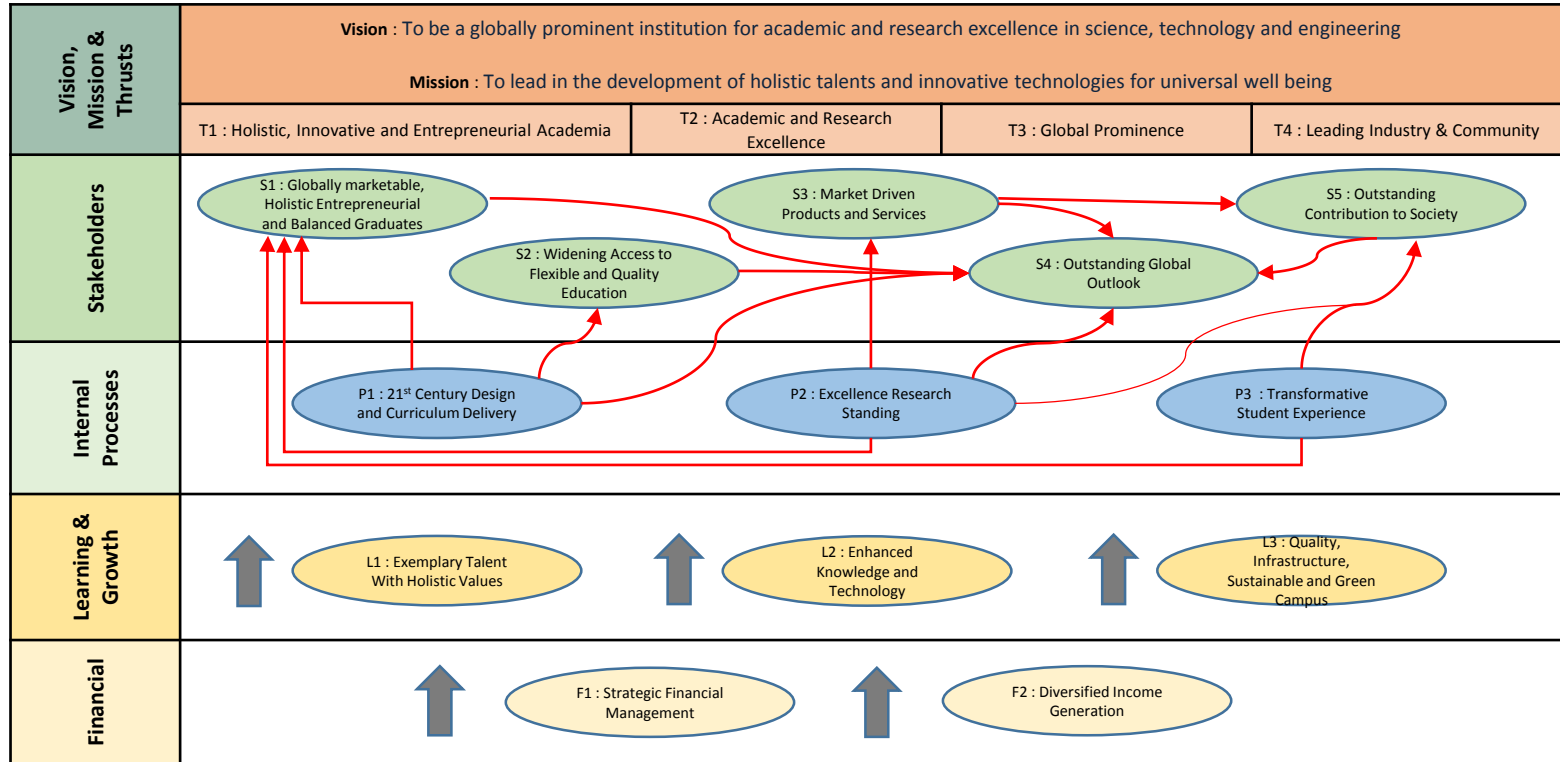
I → **Inclusive** - In FABU every staff and student is considered precious and their ideas are important for the success of the faculty. The communication between the administrative staff and the rest of the faculty is two way, open and direct. Everyone is given equal opportunity for personal growth. We facilitate the inclusion of industry, professional bodies and alumni for the development of education and professionals in built environment

S → **Sensitive** - We the entire FABU community are sensitive towards our surrounding and anything that happens around us. We are able/quick to detect or respond to slight changes or advancements that happens in the field of built environment. We handle with care our stake holders (students, parents, professional bodies, industries etc.)

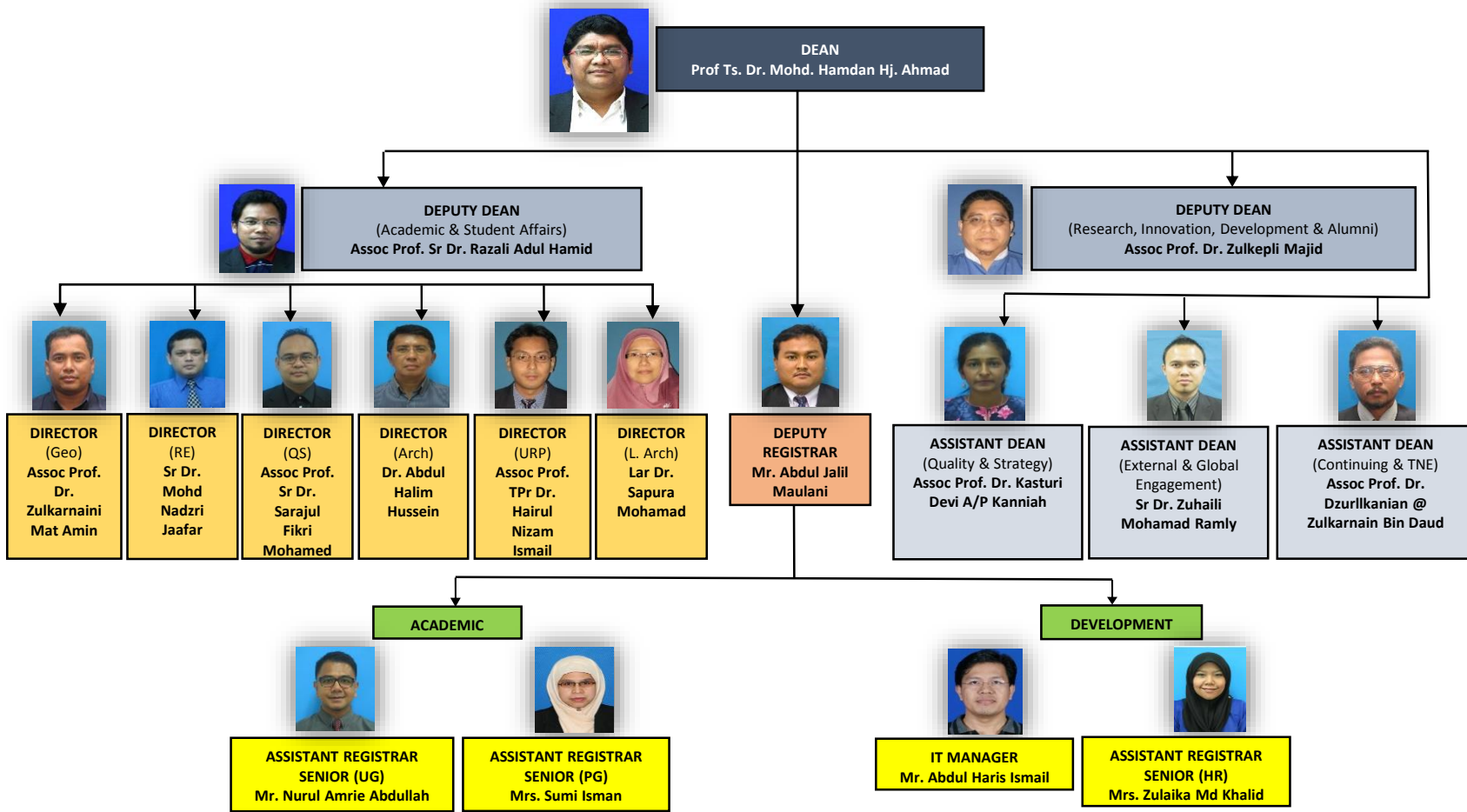


UTM STRATEGY MAP 2018 - 2020

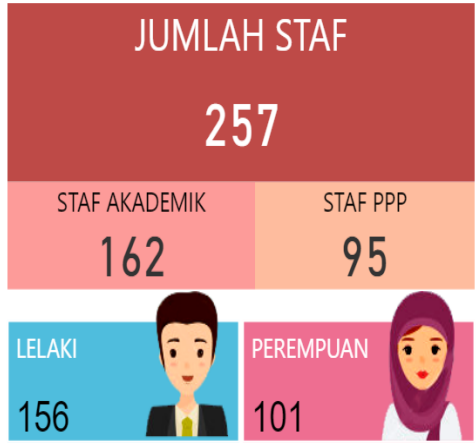
UTM Strategy Map 2018 - 2020 (UTM Global Plan : Phase III)



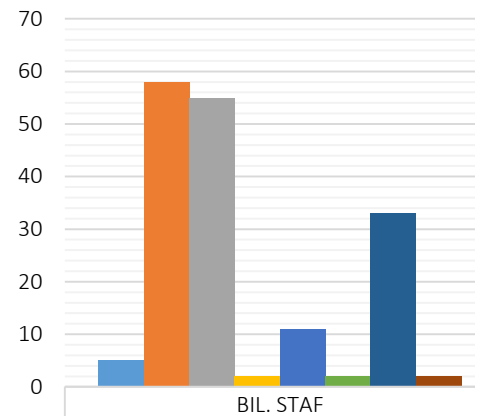
FABU ADMINISTRATORS



FABU TALENT STATISTIC

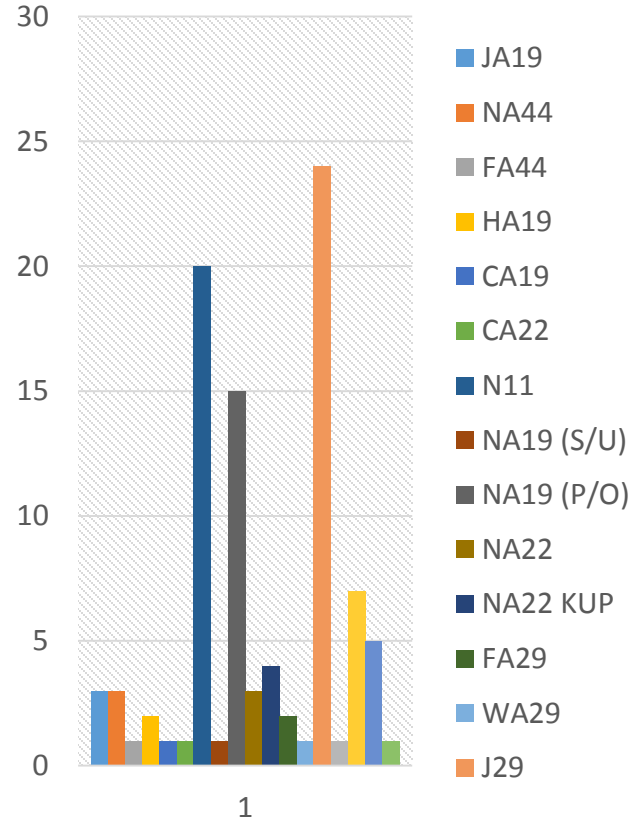


ACADEMIC STAFF



Category	Count
PENSYARAH (DS45)	5
PENSYARAH KANAN (DS51)	58
PENSYARAH KANAN (DS52)	55
PROFESOR (VK06)	2
PROFESOR (VK07)	11
PROFESOR MADYA (DS53)	2
PROFESOR MADYA (DS54)	33
TUTOR (DA41)	2

NON-ACADEMIC STAFF



FABU STUDENTS STATISTIC

UNDERGRADUATE STUDENTS

LOCAL	INTERNATIONAL	TOTAL
1634	44	1,678

POSTGRADUATE STUDENTS

PROGRAMMES	TOTAL NUMBER OF STUDENTS			
	CODE	LOCAL	INTERNATIONAL	TOTAL
MASTER (TAUGHT COURSE)	MBE..1	192	12	204
	MGH..1	62	15	77
MASTER OF PHILOSOPHY	MBE..3	63	10	73
	MGH..3	86	0	86
DOCTOR OF PHILOSOPHY (PHD)	PBE..	92	80	172
	PGH..	130	60	190
TOTAL		625	177	802

UNDERGRADUATE PROGRAMMES

6 FIELDS

ARCHITECTURE
 LANDSCAPE ARCHITECTURE
 QUANTITY SURVEYING
 URBAN AND REGIONAL PLANNING
 GEOINFORMATION
 REAL ESTATE

SBEA

BACHELOR OF SCIENCE
 IN ARCHITECTURE

SBEC

BACHELOR OF SCIENCE
 IN CONSTRUCTION

SBEL

BACHELOR OF
 LANDSCAPE
 ARCHITECTURE

SBEP

BACHELOR OF URBAN
 AND REGIONAL
 PLANNING

SBEQ

BACHELOR OF
 QUANTITY SURVEYING

SGHG

BACHELOR OF SCIENCE
 (GEOINFORMATICS)

9 UNDERGRADUATE PROGRAMMES

SGHL

BACHELOR OF SCIENCE
 (LAND ADMINISTRATION
 & DEVELOPMENT)

SGHP

BACHELOR OF SCIENCE
 (PROPERTY
 MANAGEMENT)

SGHU

BACHELOR OF
 ENGINEERING
 (GEOMATICS)

POSTGRADUATE PROGRAMMES

MASTERS

- 1) Master of Architecture
- 2) Master of Assets and Facilities Management
- 3) Master of Science (Construction Contract Management)
- 4) Master of Science (Tourism Planning)
- 5) Master of Science (Urban and Regional Planning)
- 6) Master of Science (Transportation Planning)
- 7) Master of Science (Geomatics Engineering)
- 8) Master of Science (Geoinformatics)
- 9) Master of Science (Remote Sensing)
- 10) Master of Science (Real Estate)
- 11) Master of Science (Land Administration and Development)
- 12) Master of Philosophy (Research)
 - a. *Architecture*
 - b. *Quantity Surveying*
 - c. *Urban and Regional Planning*
 - d. *Transportation Planning*
 - e. *Architecture Landscape*
- 13) Master of Philosophy (Real Estate)
- 14) Master of Philosophy (Geoinformatics)

- 15) Master of Philosophy (Remote Sensing)
- 16) Master of Philosophy (Geomatics Engineering)
- 17) Master of Philosophy (Hydrography)
- 18) Master of Philosophy (Facilities Management)
- 19) Master of Philosophy (Land Administration and Development)

DOCTOR OF PHILOSOPHY

- 20) Doctor of Philosophy (Research)
 - a. *Architecture*
 - b. *Quantity Surveying*
 - c. *Urban and Regional Planning*
 - d. *Transportation Planning*
 - e. *Architecture Landscape*
- 1) Doctor of Philosophy (Geoinformatics)
- 20) Doctor of Philosophy (Remote Sensing)
- 15) Doctor of Philosophy (Geomatics Engineering)
- 1) Doctor of Philosophy (Real Estate)
- 15) Doctor of Philosophy (Land Administration and Development)
- 16) Doctor of Philosophy (Hydrography)
- 17) Doctor of Philosophy (Facilities Management)

PROFESIONAL BODIES

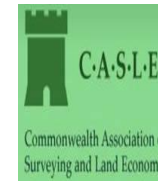
International Certification Professional Bodies



Multi-Professional Bodies and Associations



The Board of Valuers,
Appraisers and Estate Agents
Malaysia



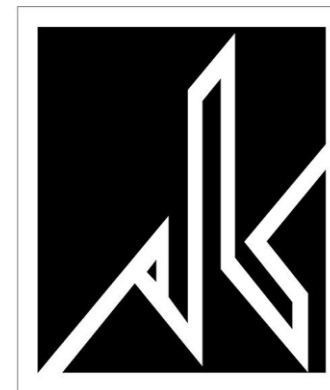
CENTRES OF EXCELLENCE



Centre for Innovative Planning
and Development



INSTeG
GEOSCIENCE AND DIGITAL EARTH CENTRE



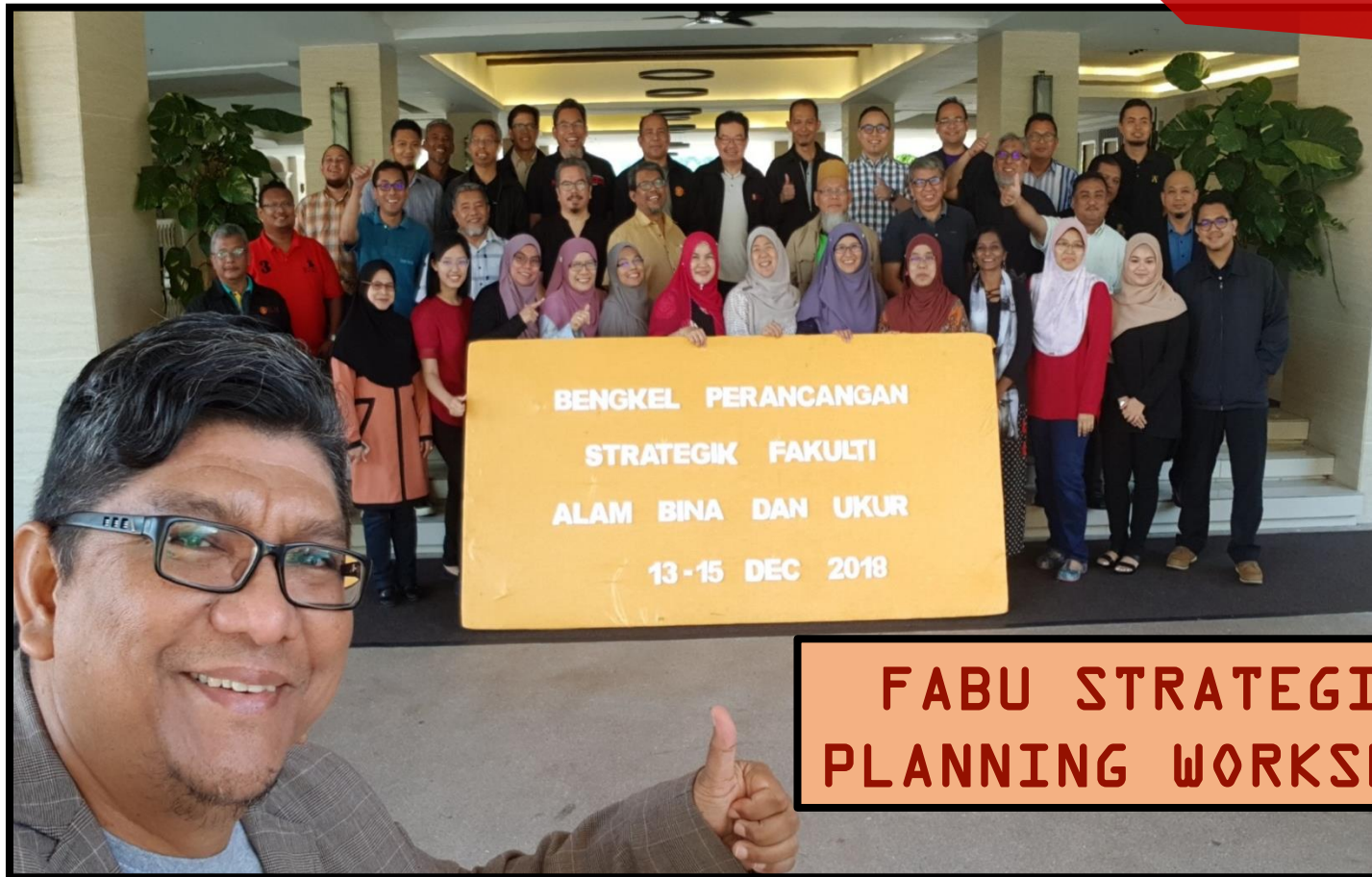
KALAM
Pusat Kajian Alam Bina Dunia Melayu
Centre for the Study of Built Environment in the Malay World
Universiti Teknologi Malaysia

RESEARCH GROUPS



1. Geospatial Imaging and Information
2. Geomatics Innovation
3. Construction Economics Mgt Research Group
4. Mass Appraisal, Housing and Planning
5. Rural Research and Planning Group
6. Malaysian Architectural Theory, Culture & Heritage
7. Low Carbon Asia
8. Tourism Planning Research Group
9. Building Information Modelling
10. Green Environmental, Energy & Building Science Research Group

11. Design Processes, Practise and Management Group
12. Heritage Landscape Planning, Design and Mgt
13. Geospatial Information Infrastructure
14. Land Administration and Development Studies
15. Tropical Resources Mapping (Tropical Map)
16. Real Asset
17. Greenovation
18. Facilities Management
19. Construction Research and Policy Analysis
20. Logistics and Transportation
21. Geospatial Research in Spatial Planning



**FABU STRATEGIC
PLANNING WORKSHOP**

**AMVERTON HERITAGE RESORT, MELAKA
HARDWORKING WITH HAPPY ENDING...**

WISDOM FOR STRATEGIC PLANNING

TARGET: TO BE TOP 50 IN ARCHITECTURE & BUILT ENVIRONMENT BY 2020

A. UTM SYNERGY 4.0 – FABU

- 1. NEW MISSION AND VISION FOR FABU**
- 2. INTEGRATED CURRICULUM - FACULTY CORE & ELECTIVES**
- 3. OPTIMISATION OF SPACES**
 - TIMETABLING - 5 CLASSES
 - DUPLICATION OF LABS
 - DUPLICATION OF SOFTWARES
 - DUPLICATION OF EQUIPMENTS
 - LEARNING ENVIRONMENTS
 - STUDENTS FACILITIES

B. KPI UTM – ROUTINE

TNCAA, TNCPI, OTHERS

C. ALIGN WITH BUDGET

D. STAFF WELFARE

- 1. WORKING ENVIRONMENTS**
- 2. STAFF PROMOTION**

E. HARNESSING OUR STRENGTHS

- 1. PHD STUDENTS – GOLD MINE**
- 2. BUILT ENVIRONMENT PROFESSIONALS**

F. IMPROVE OUR WEAKNESSES



THEME

Professional Built
Environment Education for
Sustainable Development

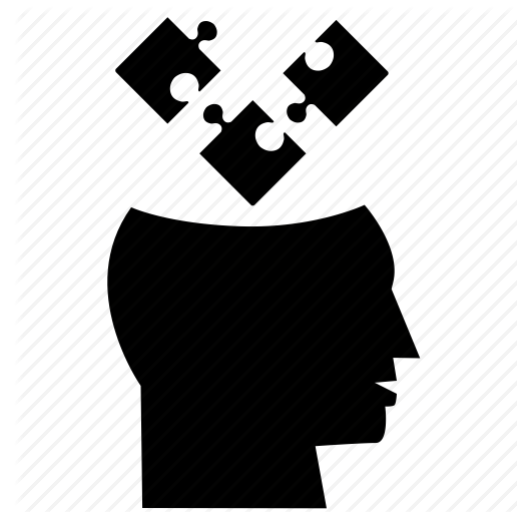
 **TAGLINE**

FABU *LOUS*

STRATEGIC THRUST (KFA)



** BE – Built Environment





KFA 1

PROFESSIONAL BASED BE EDUCATION

STRATEGIES



26

INITIATIVES



38

Operational Definition

Excellence in Learning and Teaching

Excellence in Learning and Teaching in producing human capital with first class mentality and values that are able to seek and explore knowledge, possess holistic entrepreneurial thinking and are able to contribute effectively as part of the country's professional workforce.

This process begins with a comprehensive curriculum design which takes into account the curriculum of the 21st Century and the Industrial Revolution 4.0 (4IR). The process of learning and teaching is also based on the NALI method and technology. The concept of flexible education is also included in learning and teaching. The educational system provided is equitable for all Malaysian and international citizens through open opportunities irrespective of ethnic groups, geographical locations or socio-economic backgrounds.

**KFA 1**

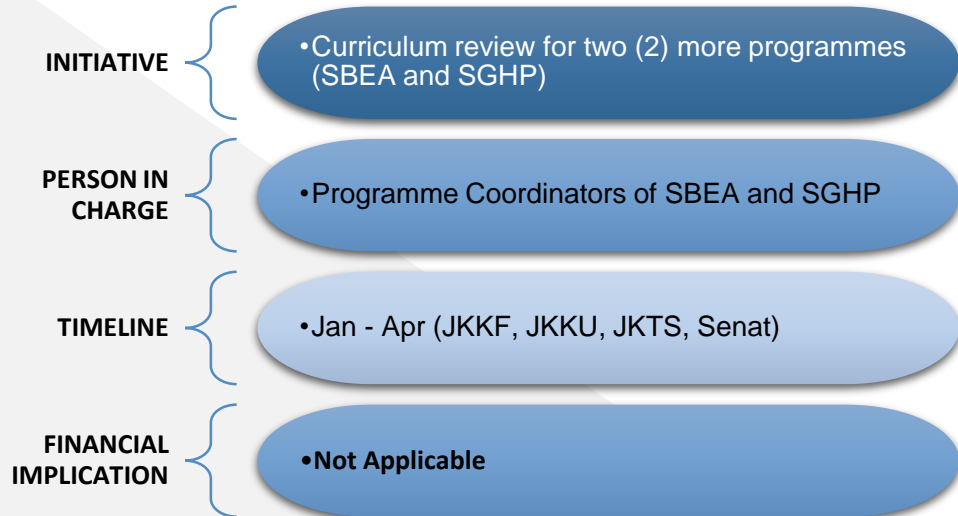
PROFESSIONAL BASED BE EDUCATION

Transformative Campus Experience

Provides comprehensive learning experience in the aspects of extra-curriculum, life skills, soft skills and attitudes. Students' participation in extra-curriculum is categorized as follows: 1) Academic Enrichment; 2) Award; 3) Leadership; 4) Arts/Culture; 5) Religious/Spiritual; 6) Community Services/Volunteers; 7) GOP/Outbound/Inbound; 8) Innovation/Creativity; 9) Entrepreneurial/Management; 10) Sports/Recreation; 11) Career Development/Work Experience; 12) Counselling/Motivation

KFA 1**PERCENTAGE OF CURRICULUM REVIEW OF EXISTING PROGRAMMES (A YEAR BEFORE PROGRAMME ROTATION)****OPERATIONAL DEFINITION**

- Period for academic programme rotation is 5 years for undergraduate and 3 years for postgraduate programmes respectively.
- Curriculum review must be performed on years 4 and 2 for undergraduate and postgraduate programmes respectively.

S1.1.2

KFA 1

NUMBER OF UNDERGRADUATE AND POSTGRADUATE PROGRAMMES CONDUCTED FLEXIBLY (BLENDED LEARNING, GAP YEAR, MOBILITY)

OPERATIONAL DEFINITION

- **Gap year** : Academic programmes with students undergoing gap year on that year
- **Mobility** : Academic programmes that: (i) have FABU students undertaking courses offered in other overseas institutions (ii) have foreign students taking courses offered in FABU on a particular year

S2.1

INITIATIVE

- Invite industry to participate in these programmes.
- Invite Undergraduate School (UGS) and Hal Ehwal Pelajar (HEP) office to provide briefings and promotions about these programmes.

PERSON IN CHARGE

- Directors and UG programme coordinators

TIMELINE

- Jan – Dec

BUDGET

- RM 1,000.00

KFA 1

NUMBER OF 2u 2i PROGRAMMES

Operational Definition

New academic programmes that are offered via 2 years of teachings in UTM (2U) and 2 years of industrial experience (2i). This programme is in support of the flexible education programme introduced by the Ministry of Education to enhance learning based on campus and industrial experiences (2u2i.mohe.gov.my)

S2.1.1

INITIATIVE

- Industrial collaboration via field of expertise

PERSON IN CHARGE

- Dr. Haryati Abdullah Hashim (FM)
- Dr. Muhammad Zulkarnain Abdul Rahman (Remote Sensing)

TIMELINE

- Jan - Dec (Paper works and industrial collaboration)

BUDGET

- RM 4,000.00

KFA 1

NUMBER OF FABU ALUMNI (INTERNATIONAL STUDENTS) ACTING AS MARKETING AMBASSADORS (SOFT POWER)

OPERATIONAL DEFINITION

Alumni from FABU (international students) who are currently overseas that can act as our marketing ambassadors)

S2.3.5

INITIATIVE

• Identify and appoint potential alumni to become FABU's marketing ambassadors

PERSON IN CHARGE

• Assistant Dean (External & Global Engagement)

TIMELINE

• Jan – Dec

BUDGET

• Not Applicable

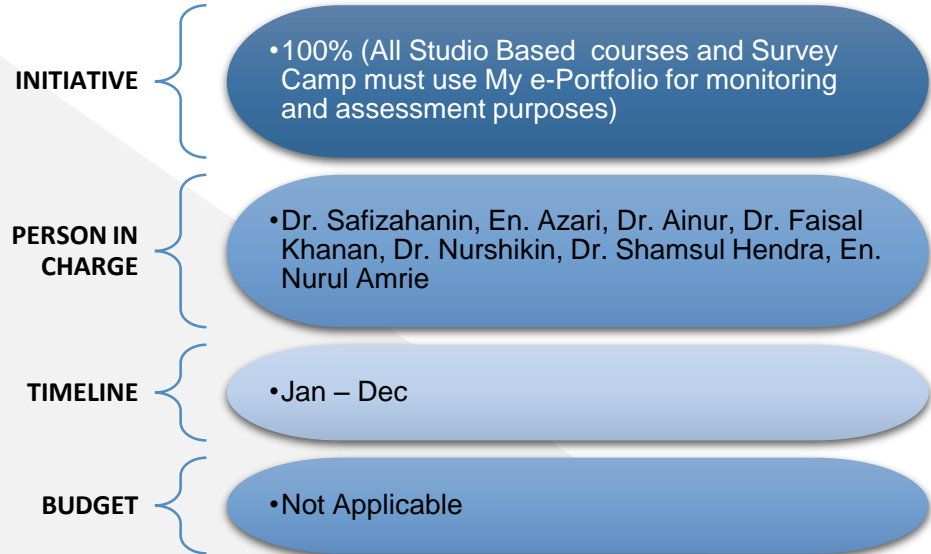
KFA 1

PERCENTAGE OF FINAL YEAR UNDERGRADUATE STUDENTS COMPLETING UTM E-PORTFOLIO

OPERATIONAL DEFINITION

Final year undergraduate students who have completed their e-portfolio

S1.1.4



KFA 1

NUMBER OF STUDENTS PARTICIPATE IN LIFE LONG LEARNIG PROGRAMMES OF FABU

OPERATIONAL DEFINITION

Life-long Learning Clusters offering part time life-long learning programmes that will lead to academic and professional qualifications

S2.2

INITIATIVE

- Implementing Life-long learning programmes
- Preparing for professional examinations (Section 3), Board of Architects Malaysia

PERSON IN CHARGE

- Ar. Noraslinda Abdul Rahman

TIMELINE

- 3 months per year

BUDGET

- Income Generation

KFA 1

TOTAL NUMBER OF JOB PREPARATION PROGRAMMES

OPERATIONAL DEFINITION

Total number of programmes offered at FABU that can increase the final year/semester students' marketability

S1.1.1

INITIATIVE

- Promote Gap Year programmes
- Promote Mobility programmes to students
- Increase MOUs with international universities
- Offer more courses that can be implemented via MOOC

PERSON IN CHARGE

- Directors and UG programme Coordinators

TIMELINE

- Jan – Dec

BUDGET

- RM 10,000.00

KFA 1

PERCENTAGE OF GRADUATES GETTING JOBS ON THE YEAR OF THEIR CONVOCATION

OPERATIONAL DEFINITION

Percentage of graduates getting jobs, becoming entrepreneurs, pursuing higher education, developing skills or waiting for placement on the year of their convocation.

S1.1

INITIATIVE

- Mini Career Carnival Programmes
- Career Talk
- Walk-in interview
- FABU Talent Scouting Interview Series

PERSON IN CHARGE

- Directors and UG Programme Coordinators

TIMELINE

- Jan – Oct

BUDGET

- RM 10,000.00

KFA 1

NUMBER OF PARTNER INSTITUTIONS (IRK) IESTABLISHED THROUGH TRANSNATIONAL EDUCATION (TNE)

OPERATIONAL DEFINITION

Institut Rakan Kongsi (IRK) or partner institutions are international institutions approved by UTM Senate and work together with UTM to offer academic services overseas.

S2.3.1

INITIATIVE

• Implementing Student Research Attachment Programmes

PERSON IN CHARGE

• Dr Muhammad Najib Mohamed Razali
• PM Dr. Raja Nafida Raja Shahminan

TIMELINE

• Mar – Apr & Jun - Aug

BUDGET

• UTMi

KFA 1

NUMBER OF PARTICIPANTS TAKING CONTINUING PROFESSIONAL DEVELOPMENT (CPD) PROGRAMMES

OPERATIONAL DEFINITION

Continuing Professional Development programmes refer to non – academic programmes such as short courses, seminars, executive courses etc.

S2.2.2

INITIATIVE

- Implementing 3 events for all 9 programmes in FABU

PERSON IN CHARGE

- PM Dr. Maimunah Sapri, Dr. Fadhlina Ahmad, Dr. Ivin Amri, Dr. Khairulnizam, Dr. Zanariah Jasmani, Dr. Siti Hajar Misnan & Dr. Shamsul Hendra

TIMELINE

- Jan – Dec

BUDGET

- Income Generation

KFA 1

PERCENTAGE OF PROGRAMMES IMPLEMENTING 21ST CENTURY LEARNING CURRICULUM

OPERATIONAL DEFINITION

21st century curriculum contains computational thinking and skills, delivery based on New Academia Learning Innovation (NALI), blended learning, Massive Online Open Courseware (MOOC), undergraduate research opportunities programmes (UROP etc.), alternative/flexible assessment that includes constructive alignment and 4th Industrial Revolution.

P1.1

INITIATIVE

• 7 out of 9 UG programmes in FABU had already reviewed their curriculum based on 21st century curriculum. 2 more programmes will be completing their review by Feb 2019.

PERSON IN CHARGE

• Dr. Muhammad Najib Mohamed Razali & Dr. Roshida Majid

TIMELINE

• Jan - Feb 2019

BUDGET

• Not Applicable

KFA 1

PERCENTAGE OF STAFF PARTICIPATING IN UNDERSTANDING 21ST CENTURY CURRICULUM COURSES

OPERATIONAL DEFINITION

Number of staff participating in courses to understand the 21st century curriculum. Staff include academic administrative staff involved in curriculum development such as programme coordinators and other staff.



P1.1.1

INITIATIVE

• FABU will organise series of programmes by inviting TNCA, AMD, UGS, UTM Lead etc. to provide understanding of the 21st century curriculum to the staff.

PERSON IN CHARGE

• PM Dr. Razali bin Adul Hamid & En. Nurul Amrie bin Abdullah

TIMELINE

• Jan - Dec 2019

BUDGET

• RM 1,000.00

KFA 1

PERCENTAGE OF STAFF ATTENDING TRAINING ON HOW TO DESIGN AND IMPLEMENT 21ST CENTURY CURRICULUM

OPERATIONAL DEFINITION

Staff participating in designing and implementing 21st century curriculum.

Staff include academic administrative staff involved in curriculum development such as programme coordinators and other staff.

P1.1.2

INITIATIVE

- FABU will organise series of workshops related to reshuffling new syllabus by inviting facilitators from UTMLead, CIDU (Curriculum Innovation & Development Unit) and JKKU (University Curriculum Committee) members to ensure the planning and preparation of the 21st century curriculum achieve its objectives.

PERSON IN CHARGE

- Dr. Roshida binti Abdul Majid, Dr. Abdul Halim bin Husein, Dr. Muhammad Najib bin Razali & Dr. Mohd Nadri bin Jaafar

TIMELINE

- Jan - Dec 2019

BUDGET

- Not Applicable

KFA 1

PERCENTAGE OF STAFF UNDERTAKING COURSES/TRAININGS RELATED TO FUTURE READY EDUCATORS (FLUID/ORGANIC CURRICULUM) - NALI, MOOC ETC.

OPERATIONAL DEFINITION

Staff undertaking courses/trainings related to Future Ready Educators (fluid/organic curriculum) - NALI, MOOC etc.

Staff include academic administrative staff involved in curriculum development such as programme coordinators and other staff.

P1.13

INITIATIVE

• Identify staff that can participate in programmes related to 21st century curriculum

PERSON IN CHARGE

• PM Dr. Zulkepli bin Majid, Pn. Zulaika binti Md Khalid & En. Abdul Jalil bin Maulani

TIMELINE

• Jan - Dec 2019

BUDGET

• Not Applicable

KFA 1

FUTURISTIC LEARNING SPACES & TECHNOLOGIES

OPERATIONAL DEFINITION

Invest on support system and resources for 21st century learning (Centralised facilities/ faculty based resources)

P1.1.6

INITIATIVE	• Renovate space to provide Futuristic Learning Centre (BIM CDIS) at Block B05 FABU
PERSON IN CHARGE	• En. Abdul Jalil bin Maulani & PM Dr. Kherun Nita binti Ali
TIMELINE	• Jan - Dec 2019
BUDGET	• Not Applicable

KFA 1

NUMBER OF ALUMNI AS INDUSTRIAL ADVISORY PANEL (IAP)

OPERATIONAL DEFINITION

Appoint alumni representative as Industrial Advisory Panel (IAP) in FABU Curriculum Review Committee for a certain period of time as determined by the faculty.

IAP is from individuals with vast industrial experience and expertise related to programmes offered at FABU.

P1.1.7

INITIATIVE

- Appoint Professional Industrial Advisory Panel among FABU Alumni

PERSON IN CHARGE

- Dr. Abdul Halim bin Husein & Dr. Mohd Nadzri bin Jaafar

TIMELINE

- Jan - Dec 2019

BUDGET

- Not Applicable

KFA 1

NUMBER OF INNOVATIVE, MULTI/ INTER/ TRANS-DISCIPLINARY PROGRAMMES

OPERATIONAL DEFINITION

- Academic programmes cycle period of 5 and 3 years of undergraduate and postgraduate respectively
- Curriculum review of academic programmes must be conducted at the 4th year of undergraduate and 2nd year of postgraduate programmes respectively.

P1.1.8

INITIATIVE

• Identify and implement projects that have high potential and promote Grand Challenge programmes among UG students of FABU

PERSON IN CHARGE

• PM Dr. Mohd Hisyam bin Rasidi

TIMELINE

• Jan – Dec 2019

BUDGET

• Not Applicable

KFA 1

NUMBER OF WIFI ACCESS POINTS

OPERATIONAL DEFINITION

Ensure wifi network is upto the students needs

P3.1.7

INITIATIVE

- Add more wifi access points at strategic locations
- Allocate more budget (via Executive Committee) for increasing wifi access points

PERSON IN CHARGE

- En. Abdul Haris bin Ismail

TIMELINE

- Jan - Dec 2019

BUDGET

- RM 10,000.00

KFA 1

DIVERSIFY MENU, PROVIDE CAFES AND FOOD TRUCK

OPERATIONAL DEFINITION

Provide centralised cafes to fulfill students needs

P3.1.10

INITIATIVE

• Upgrade the Faculty's cafe (Toksus) in Block B01 to accommodate over 50 people at any one time.

PERSON IN CHARGE

• En. Abdul Jalil bin Maulani

TIMELINE

• Buka setiap hari

BUDGET

• Not Applicable

KFA 1

NUMBER OF ALUMNI INVOLVED IN GRADUATES DEVELOPMENT PROGRAMMES

OPERATIONAL DEFINITION

Number of alumni engagement programmes through engagement sessions, interview with successful alumni, and reunion and networking (local and international).

P.3.2

INITIATIVE

- Conduct special programmes with alumni and professional bodies like Career Talk and Knowledge Sharing from time to time to identify alumni that can contribute ideas and resources for student development programmes

PERSON IN CHARGE

- Dr. Othman Zainon

TIMELINE

- Jan – Dec 2019

BUDGET

- Not Applicable

KFA 1

NUMBER OF COORDINATORS FROM FABU ALUMNI

OPERATIONAL DEFINITION

Number of alumni appointed as coordinators in FABU

P3.2.1

INITIATIVE

• Appoint alumni as coordinators to assist in programme planning and other activities in FABU

PERSON IN CHARGE

• Dr. Othman Zainon

TIMELINE

• Jan - Dec 2019

BUDGET

• Not Applicable

KFA 1

NUMBER OF ALUMNI

OPERATIONAL DEFINITION

Number of alumni as Advisors, Fellows of faculty/associations/residential colleges, Mentor, Speakers, Invited panel (alumni gathering, alumni services in student associations, *adjunct lecturer*, and international alumni in local and international student activities).

P3.2.2

INITIATIVE

- Appoint alumni as invited speakers for various programmes and activities

PERSON IN CHARGE

- Dr. Othman Zainon

TIMELINE

- Jan – Dec 2019

BUDGET

- Not Applicable

KFA 1

NUMBER OF ALUMNI ENGAGEMENT ACTIVITIES AT FABU

OPERATIONAL DEFINITION

Number of alumni engagement activities at FABU for generating income through endowment i.e. Faculty Dinner, Sports Tournament, seminar and conventions.

P3.2.7

INITIATIVE

• Plan activities and scheduled meetings with alumni

PERSON IN CHARGE

• Dr. Othman Zainon

TIMELINE

• Jan - Dec 2019

BUDGET

• Not Applicable

KFA 1

NUMBER OF PROMINENT ALUMNI NETWORKS

OPERATIONAL DEFINITION

Number of Prominent Alumni Network

P3.2.8

INITIATIVE

• Develop network and database of prominent Alumni

PERSON IN CHARGE

• Dr. Muhammad Zulkarnain Abdul Rahman

TIMELINE

• Jan – Dec 2019

BUDGET

• Not Applicable

KFA 1

PERCENTAGE OF STUDENTS PARTICIPATING IN AT LEAST 3 PROGRAMMES PER YEAR

OPERATIONAL DEFINITION

- Percentage of students (UG/PG, Full Time/Part time, local/ international) participating in programmes related to “Holistic Student Developments”
- At least 3 programmes every year
- The frequency of students’ participation is translated into percentage
- “Holistic Student Developments” programmes refer to all programmes/activities that aims at forming self identity, changing the way and style of thinking, knowledge development, and forming skills that can generate balanced students with holistic mind and entrepreneurial values.

P3.3

INITIATIVE

- FABU will encourage students to participate in all student activities organised by UTM
- FABU will record all academic and co-curriculum activities participated by FABU students in the Academic System (UTM ACAD)

PERSON IN CHARGE

- All UG programme coordinators

TIMELINE

- Jan - Dec 2019

BUDGET

- Not Applicable

KFA 1**NUMBER OF PROFESSIONAL TEACHING SPACES AT INDUSTRY****OPERATIONAL DEFINITION**

Every module (curriculum) developed enables students to penetrate the industry to obtain knowledge and be in a comprehensive learning environment that is oriented towards a real working environment.

**KAI
FAKULTI****INITIATIVE**

- Increase number of MOUs with industry players
- Identify and establish industry laboratory

PERSON IN CHARGE

- Sr. Dr. Zuhaili Mohamad Ramly

TIMELINE

- Semester lazim

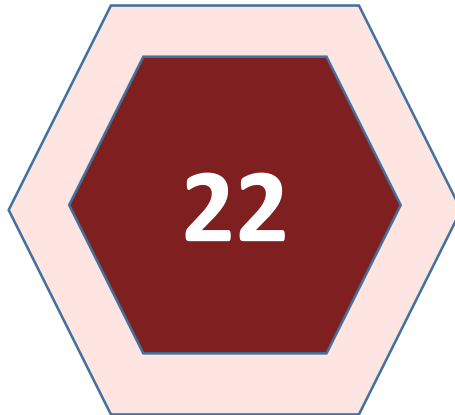
BUDGET

- Not Applicable

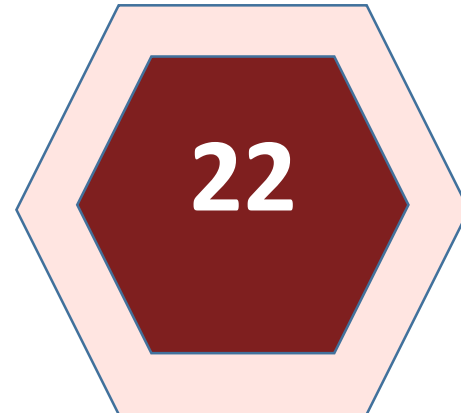
KFA 2

RESEARCH: SMART PARTNERSHIP WITH INDUSTRY

STRATEGIES



INITIATIVES





KFA 2

RESEARCH SMART PARTNERSHIP WITH INDUSTRY

OPERATIONAL DEFINITION OF KFA2

Strengthening FABU as a faculty that focuses on research through synergistic partnership with industry and various stakeholders in line with the university's goal of maintaining the status of Research University.

INCOME FROM CONSULTANCIES

KFA 2

OPERATIONAL DEFINITION

Gross income from consultancies registered with UTSB & Bursary

S3.1.3

INITIATIVE

- FABU provides business cards and expertise profiles for all staff members to promote their expertise.

PERSON IN CHARGE

- All RG and COE at FABU

TIMELINE

- Jan - Dec 2019

BUDGET

- RM5,000 (To produce business cards for all staff members and expertise profile)

TRAINING (EXCLUDING FROM LABS)

KFA 2

OPERATIONAL DEFINITION

Gross income from training

S3.1.4

INITIATIVE

- FABU provides business cards and expertise profiles for all staff members to promote their expertise.

PERSON IN CHARGE

- All RG and COE at FABU

TIMELINE

- Jan - Dec 2019

BUDGET

- RM5,000 (To produce business cards for all staff members and expertise profile)

SEMINAR/CONFERENCE (EXCLUDING FROM LABS)

KFA 2

OPERATIONAL DEFINITION

Gross income from seminars/conferences

S3.1.5

INITIATIVE

• To discuss with relevant industries to organize join seminars/conferences

PERSON IN CHARGE

• All RG and COE at FABU

TIMELINE

• Jan - Dec 2019

BUDGET

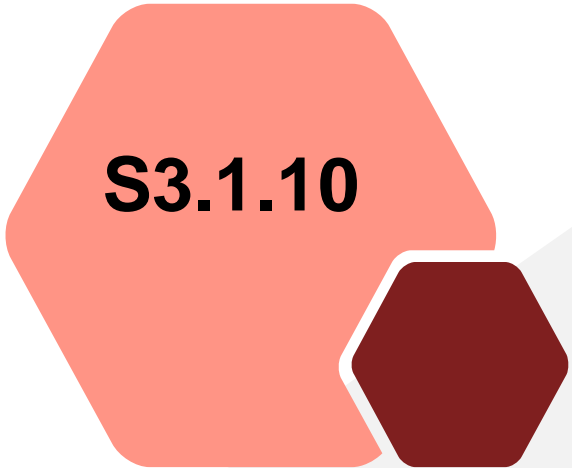
• FABU Research Strengthening Fund

INTENSIFY DIGITAL PROMOTION/PRODUCT BRANDING



OPERATIONAL DEFINITION

Stakeholders will be able to obtain information especially regarding research expertise



- INITIATIVE** {
 - To develop website for RG and COE to publish FABU staff expertise
- PERSON IN CHARGE** {
 - Deputy Dean (Research and Development), research manager, all RG and COE at FABU and FABU IT team
- TIMELINE** {
 - Jan - Dec 2019
- BUDGET** {
 - FABU in-house budget

INDUSTRIES PARTNER MAPPING

KFA 2

OPERATIONAL DEFINITION : AGENDA 01

To map, cluster, and prioritize list of industrial partners in which the entity can engage with

S3.1.14

INITIATIVE

• To organize meetings and workshops with the industry

PERSON IN CHARGE

• Deputy Dean (Research and Development), research manager, all RG and COE at FABU

TIMELINE

• Jan - Dec 2019

BUDGET

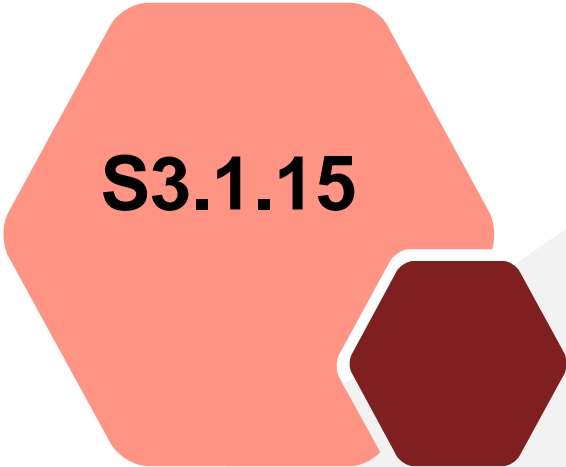
• FABU Research Strengthening Fund

ENGAGEMENT WITH PROFESSIONAL ASSOCIATES (e.g. IEM, PAM, FMM, etc.)



OPERATIONAL DEFINITION

To have coordinated engagement with targeted professional associations to highlight the services, expertise, etc. of FABU



- INITIATIVE** { • To organize meeting with FABU Alumni Committee
- PERSON IN CHARGE** { • Alumni committee FABU
- TIMELINE** { • Jan - Dec 2019
- BUDGET** { • FABU Research Strengthening Fund

NUMBER OF WORKSHOPS ON WINNING PROPOSAL ALIGNED TO NICHE AREA & GOVERNMENT FOCUS AREAS

KFA 2

OPERATIONAL DEFINITION

Ensure high quality proposal submission & fulfil the need/focus of the country (example : NBOS, 4th Industrial Revolution etc.)

P2.1.3

INITIATIVE

- To organize workshops with RG heads and directors of COE and selected academic staff members

PERSON IN CHARGE

- Deputy Dean (Research and Development) , research manager, RG head and director of COE

TIMELINE

- Jan - Dec 2019

BUDGET

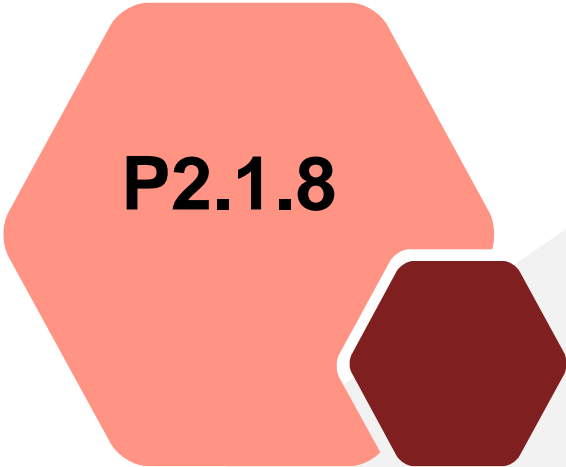
- FABU Research Strengthening Fund

INCREASE STAFF ENGAGING IN RESEARCH



OPERATIONAL DEFINITION : AGENDA 01

Chair or dean of faculties to actively engage those without research grant and train for proposal, writing, etc



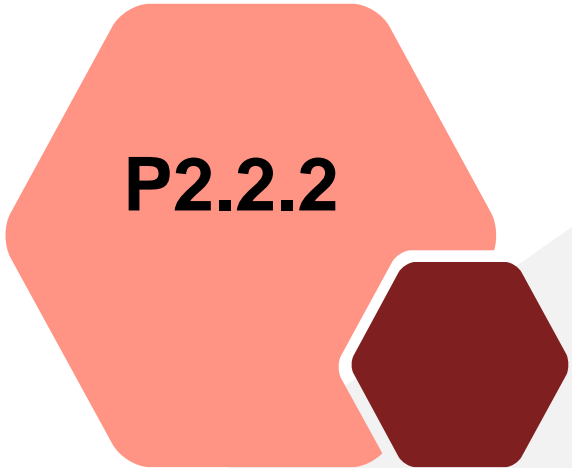
- INITIATIVE** { • To organize workshops on research grant
- PERSON IN CHARGE** { • All FABU academic staffs without research grant
- TIMELINE** { • Jan - Dec 2019
- BUDGET** { • FABU Research Strengthening Fund

INDEXED PUBLICATION PER ACADEMIC STAFF



OPERATIONAL DEFINITION

Ratio of indexed publications (WOS/Scopus) per academic staff



- INITIATIVE**
 - Organize workshops on publication
 - Organize FABU international postgraduate conference
- PERSON IN CHARGE**
 - All FABU academic staff/All postgraduate (MPHIL and PHD) students at FABU
- TIMELINE**
 - Jan - Dec 2019
- BUDGET**
 - RM50,000 from FABU for postgraduate conference/ FABU Research Strengthening Fund for workshop

WINNING RESEARCH PROPOSAL WITH STAKEHOLDERS FOR SPECIFIED SUSTAINABLE DEVELOPMENT (SDG) GOAL TARGET

KFA 2

OPERATIONAL DEFINITION : AGENDA 01

To strengthen creative and progressive academia-industry-society partnerships in sustainable built environment research and development, Working with stakeholders in formulating an implementation of R&D niche areas to materialise national SDG agenda

**KAI
FABU**

INITIATIVE

- Create signature projects concerning national interest on SDG within FABU expertise. E.g. smart city, resilience planning etc.

PERSON IN CHARGE

- Rep of COE & Rep from RG

TIMELINE

- Jan - Dec 2019

BUDGET

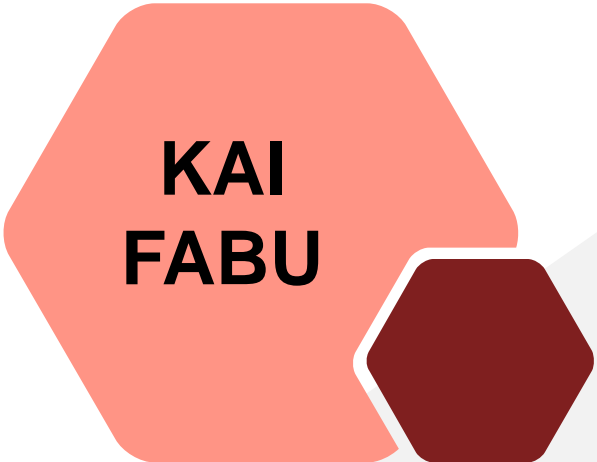
- FABU Research Strengthening Fund

INVOLVEMENT OF STAKEHOLDERS WITHIN FABU EXPERT AREAS



OPERATIONAL DEFINITION : AGENDA 01

To strengthen creative and progressive academia-industry-society partnerships in sustainable built environment research and development, Working with stakeholders in formulating an implementation of R&D niches area to materialise national SDG agenda



- INITIATIVE** { • Series of open talks with stakeholders for all fields in FABU.
- PERSON IN CHARGE** { • Rep of COE & Rep from RG
- TIMELINE** { • Jan - Dec 2019
- BUDGET** { • FABU Research Strengthening Fund

CONFERENCE / MEETINGS / SEMINARS

KFA 2

OPERATIONAL DEFINITION : AGENDA 01

To strengthen creative and progressive academia-industry-society partnerships in sustainable built environment research and development, Working with stakeholders in formulating an implementation of R&D niche areas to materialise national SDG agenda

KAI FABU

INITIATIVE

- Collaboration on Conference / Meetings / Seminars / Workshop initiatives with industries .

PERSON IN CHARGE

- Rep of COE & Rep from RG

TIMELINE

- Jan - Dec 2019

BUDGET

- FABU Research Strengthening Fund

TWO INDUSTRY GRANTS

KFA 2

OPERATIONAL DEFINITION : AGENDA 01

To strengthen creative and progressive academia-industry-society partnerships in sustainable built environment research and development, Working with stakeholders in formulating an implementation of R&D niche areas to materialise national SDG agenda



**KAI
FABU**

INITIATIVE

- Establish FAB/Industry grant generation through incentive on tax deductions with RMC

PERSON IN CHARGE

- Rep of COE & Rep from RG

TIMELINE

- Jan - Dec 2019

BUDGET

- FABU Research Strengthening Fund

SIX CPD COURSES @ PROGRAMMES

KFA 2

OPERATIONAL DEFINITION : AGENDA 01

To strengthen creative and progressive academia-industry-society partnerships in sustainable built environment research and development, Working with stakeholders in formulating an implementation of R&D niche areas to materialise national SDG agenda



**KAI
FABU**

INITIATIVE

- Create trainer certification/CPD for selected/identified fields in FABU

PERSON IN CHARGE

- Rep of COE & Rep from RG

TIMELINE

- Jan - Dec 2019

BUDGET

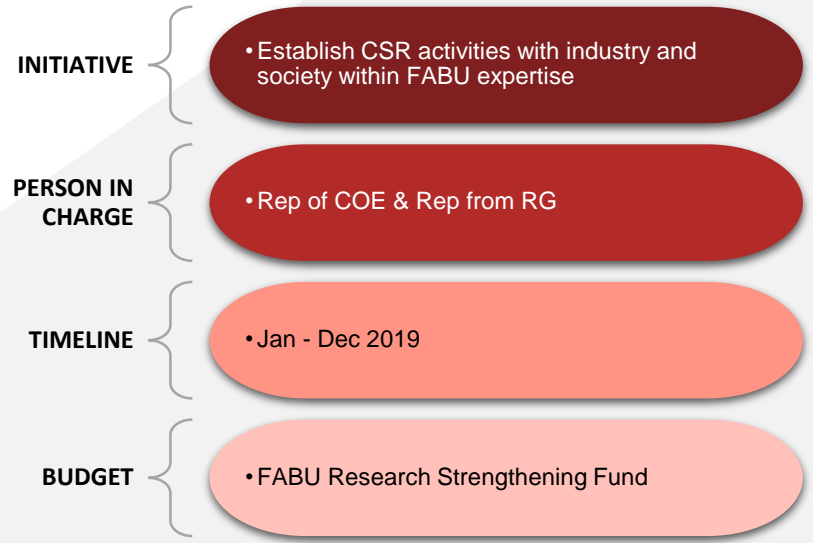
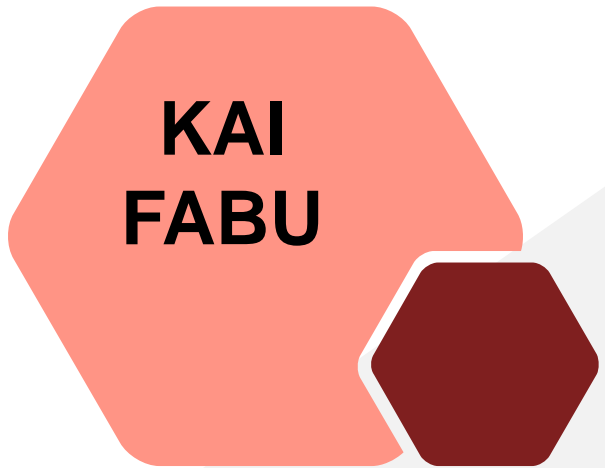
- FABU Research Strengthening Fund

24 CSR RESEARCH INCLINED

KFA 2

OPERATIONAL DEFINITION : AGENDA 01

To strengthen creative and progressive academia-industry-society partnerships in sustainable built environment research and development, Working with stakeholders in formulating an implementation of R&D niche areas to materialise national SDG agenda



HIGH IMPACT RESEARCH

KFA 2

OPERATIONAL DEFINITION : AGENDA 01

To strengthen creative and progressive academia-industry-society partnerships in sustainable built environment research and development, Working with stakeholders in formulating an implementation of R&D niche areas to materialise national SDG agenda



**KAI
FABU**

INITIATIVE

- Establish and strengthen working relationship with reputable international institutions within the field of built environment

PERSON IN CHARGE

- Rep of COE & Rep from RG

TIMELINE

- Jan - Dec 2019

BUDGET

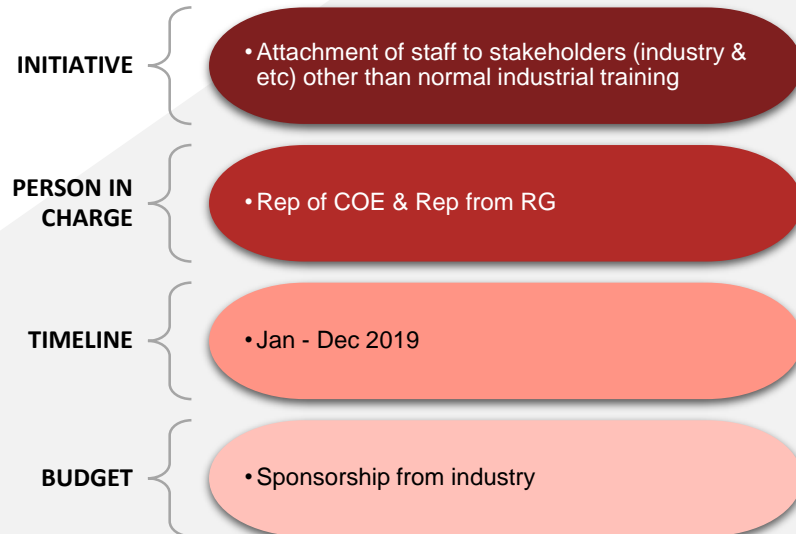
- FABU Research Strengthening Fund

SHORT TERM ATTACHMENT (LESS THAN 2 MONTHS)

KFA 2

OPERATIONAL DEFINITION : AGENDA 02

To enable innovative, impactful and advanced R&D outputs and relevance to stakeholders of Built Environment, Progressive and sensitive to knowledge and technology updates to deliver impactful outputs



SIX PHD INDUSTRY CANDIDATES PER PROGRAM

KFA 2

OPERATIONAL DEFINITION : AGENDA 02

To enable innovative, impactful and advanced R&D outputs and relevance to stakeholders of Built Environment, Progressive and sensitive to knowledge and technology updates to deliver impactful outputs



**KAI
FAKULTI**

INITIATIVE

- Strengthen PHD Industry, to organize phd industry courses for all FABU academic staff members

PERSON IN CHARGE

- Director of 6 programmes at FABU

TIMELINE

- Jan - Dec 2019

BUDGET

- Sponsorship from industry and KPM

INDUSTRY CLASSROOM



OPERATIONAL DEFINITION : AGENDA 02

To enable innovative, impactful and advanced R&D outputs and relevance to stakeholders of Built Environment, Progressive and sensitive to knowledge and technology updates to deliver impactful outputs



- INITIATIVE** {
 - Establish training classroom at industry/ focal partners as in accordance to IR 4.0
- PERSON IN CHARGE** {
 - Rep of COE & Rep from RG
- TIMELINE** {
 - Jan - Dec 2019
- BUDGET** {
 - Sponsorship from industry

TECHNOLOGY AND KNOWLEDGE TRANSFER FROM RESEARCH OUTPUT / WHITE PAPER

KFA 2

OPERATIONAL DEFINITION : AGENDA 02

To enable innovative, impactful and advanced R&D outputs , and relevance to stakeholders of Built Environment, Progressive and sensitive to knowledge and technology updates to deliver impactful outputs



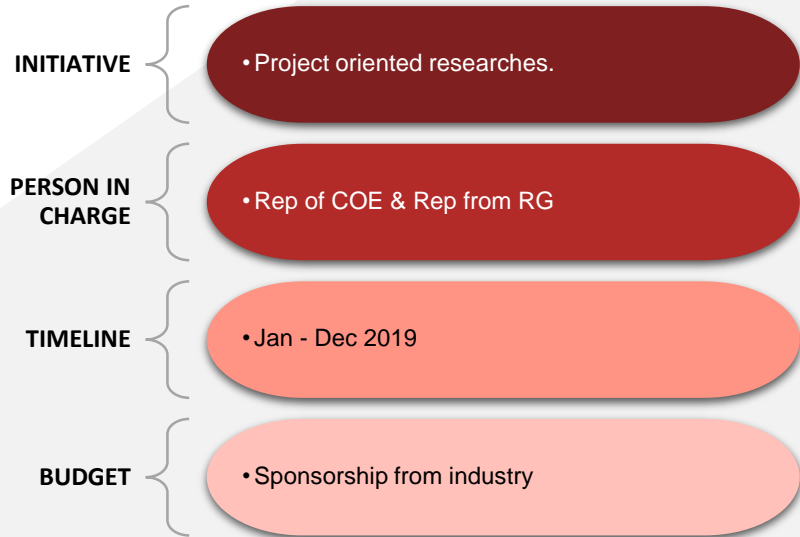
- INITIATIVE** { • Informing knowledge and technology updates to industry and vice-versa.
- PERSON IN CHARGE** { • Rep of COE & Rep from RG
- TIMELINE** { • Jan - Dec 2019
- BUDGET** { • FABU Research Strengthening Fund

COSULTANCIES/CSR TRANSFORM TO RESEARCH PROJECT



OPERATIONAL DEFINITION : AGENDA 02

To enable innovative, impactful and advanced R&D outputs , and relevance to stakeholders of Built Environment, Progressive and sensitive to knowledge and technology updates to deliver impactful outputs



POLICY PAPERS

KFA 2

OPERATIONAL DEFINITION : AGENDA 02

To enable innovative, impactful and advanced R&D outputs , and relevance to stakeholders of Built Environment, Progressive and sensitive to knowledge and technology updates to deliver impactful outputs



**KAI
FAKULTI**

INITIATIVE

- Transforming research output into policy papers with appropriate stakeholders.

PERSON IN CHARGE

- CIPD, CRES, LOW CARBON ASIA RG

TIMELINE

- Jan - Dec 2019

BUDGET

- Sponsorship from industry



KFA 3



SUSTAINABLE LIVING ENVIRONMENT

STRATEGIES



19

INITIATIVES



46

KFA 3**SUSTAINABLE LIVING ENVIRONMENT****OPERATIONAL DEFINITION OF KFA3**

Creating a sustainable, conducive, safe and healthy environment. The implementation approach is through the enhancement of ICT technologies that contribute to the implementation of the Digital Campus concept, the completeness of library knowledge assets, the 'Living Lab' experience, and the effective community and industrial collaboration at the national and international levels.

KFA 3**CUSTOMER SATISFACTION INDEX TOWARDS INFRASTRUCTURE AND FACILITIES AT FABU****OPERATIONAL DEFINITION**

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, road and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.1**INITIATIVE**

- Manage infrastructure and assets to minimize the cost and maximise their performance

PERSON IN CHARGE

- Staff FABU

TIMELINE

- Jan - Dec 2019

BUDGET

- RM 150,000

KFA 3

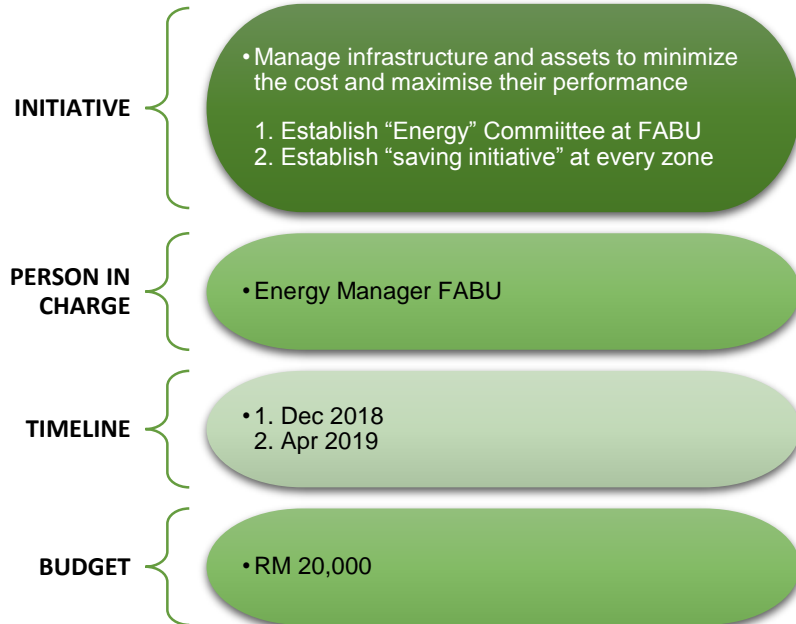
PERCENTAGE OF REDUCTION IN ENERGY EFFICIENCY INDEX COMPARED TO THE BASELINE DATA IN 2009

OPERATIONAL DEFINITION

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.1.1



KFA 3

REDUCTION IN PERCENTAGE OF WATER CONSUMPTION PER CAPITA

OPERATIONAL DEFINITION

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.1.2

INITIATIVE

- 1. Review on the usage of toilets and water resources
- 2. Conduct "water saving" awareness programmes
- 3. Establish Rain Water Harvesting System

PERSON IN CHARGE

- Energy Committee FABU

TIMELINE

- 1. Feb 2019
- 2. Mar 2019
- 3. Sept 2019

BUDGET

- 1. Not Applicable
- 2. RM 2,000
- 3. RM 10,000

KFA 3

PERCENTAGE OF FOOD WASTE RECYCLING AND LANDSCAPE

OPERATIONAL DEFINITION

Customer satisfaction towards physical infrastructure and facilities in FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.1.3

INITIATIVE

- 1. Increase awareness on 3R activities at FABU
- 2. Provide 3R platforms at every zones at FABU
- 3. Establish a 'one stop centre' to sell 3R products

PERSON IN CHARGE

- Energy Committee FABU

TIMELINE

- 1. Apr 2019
- 2. Sept 2019
- 3. Oct 2019

BUDGET

- 1. RM2,000
- 2. RM2,000
- 3. RM2,000

KFA 3

CONDUCTIVE LEVEL OF SPACE, LECTURE ROOMS AND LABORATORIES

OPERATIONAL DEFINITION

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.1.4

INITIATIVE

- 1. Conduct survey
- 2. Report survey results to the faculty

PERSON IN CHARGE

- Facility Management Committee FABU

TIMELINE

- 1. Feb & Sept 2019
- 2. Jun & Dec 2019

BUDGET

- 1. Not Applicable
- 2. Not Applicable

KFA 3

CUSTOMER SATISFACTION TOWARDS SERVICES

OPERATIONAL DEFINITION

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.1.5

INITIATIVE

- 1. Conduct survey
- 2. Report survey results to the faculty

PERSON IN CHARGE

- Facility Management Committee FABU

TIMELINE

- 1. Feb & Sept 2019
- 2. June & Dec 2019

BUDGET

- 1. Not Applicable
- 2. Not Applicable

KFA 3

OPTIMUM USAGE OF SPACE AND ASSET

OPERATIONAL DEFINITION

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.1.6

INITIATIVE

- 1. Establish Space/Asset Synergy Committee at FABU
- 2. Review the optimum usage of space and asset at FABU
- 3. Prepare a guideline for space/asset usage

PERSON IN CHARGE

- Energy Committee FABU

TIMELINE

- 1. Dec 2018
- 2. Jan 2019
- 3. Jul 2019

BUDGET

- 1. Not Applicable
- 2. Not Applicable
- 3. RM 2,000

KFA 3**INCOME GENERATION THROUGH SPACE AND ASSET RENTAL****OPERATIONAL DEFINITION**

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.1.7**INITIATIVE**

- 1. Establish Space/Asset Synergy Committee at FABU
- 2. Review the optimum usage of space and asset at FABU
- 3. Prepare a guideline for space/asset usage

PERSON IN CHARGE

- JK Energy FABU

TIMELINE

- 1. Apr 2019
- 2. Sept 2019
- 3. Oct 2019

BUDGET

- 1. RM 2,000
- 2. RM 2,000
- 3. RM 2,000

KFA 3**CUSTOMER SATISFACTION INDEX ON CONDUCTIVE DIGITAL ENVIRONMENT AT FABU****OPERATIONAL DEFINITION**

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.2**INITIATIVE**

- Increase internet access through replacing obsolete internet network, increase internet coverage and the capacity of broadband to 10Gbps.

PERSON IN CHARGE

- Staff FABU

TIMELINE

- Jan - Dec 2019

BUDGET

- RM 50,000

KFA 3

PERCENTAGE OF CUSTOMER SATISFACTION INDEX ON QUALITY AND COVERAGE OF INTERNET SERVICE

OPERATIONAL DEFINITION

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.2.1

INITIATIVE

- Increase internet access through replacing obsolete internet network, increase internet coverage and the capacity of broadband to 10Gbps.

1. Conduct survey
2. Report survey results to the faculty and CICT

PERSON IN CHARGE

- IT Officer FABU

TIMELINE

- 1. Feb & Sept 2019
2. June & Dec 2019

BUDGET

- 1. Not Applicable
2. Not Applicable

KFA 3**PERCENTAGE OF CUSTOMER SATISFACTION INDEX ON ICT HARDWARE AND SYSTEM****OPERATIONAL DEFINITION**

Customer satisfaction towards physical infrastructure and facilities at FABU

Physical infrastructure refers to elements such as buildings, roads and pedestrian pathways while, facilities refer to sports, transportation and recreational facilities.

L2.2.1**INITIATIVE**

- Increase internet access through replacing obsolete internet network, increase internet coverage and the capacity of broadband to 10Gbps.

1. Conduct survey
2. Report survey results to the faculty and CICT
3. Pelaporan analisa ke fakulti dan CICT
3. Increase and improve infrastructure facilities

PERSON IN CHARGE

- IT Officer FABU

TIMELINE

- 1. Feb & Sept 2019
2. June & Dec 2019
3. June 2019

BUDGET

- 1. Not Applicable
2. Not Applicable
3. RM 50,000

KFA 3

NUMBER OF PTJ/UNIT THAT ACHEIVED GREEN AND SUSTAINABLE STANDARDS (MINIMUM LEVEL 3 GREEN LEAF)

OPERATIONAL DEFINITION

Improve the sustainable management element at FABU to realise the Development Goals (SDGs).

L3.1

INITIATIVE

- Establish Sustainability Commiittee at FABU
- Prepare documentation based on Green Leaf Status 2018 & 2019
- Establish activities that support the sustainable development Goals Agenda

PERSON IN CHARGE

- Green & Energy Committees FABU

TIMELINE

- Jan - Dec 2019

BUDGET

- RM 70,000

KFA 3**TOTAL NUMBER OF INITIATIVES OR ACTIVITIES IMPLEMENTED EVERY YEAR TO MAINTAIN A SUSTAINABLE FACULTY****OPERATIONAL DEFINITION**

Improve the sustainable management element at FABU to realise the Development Goals (SDGs).

L3.1.1**INITIATIVE**

- 1. Conduct awareness campaign at FABU such as Cleanliness Campaign, Healthy Life Style etc.
- 2. Conduct scheduled sustainable programmes at FABU that are in line with UTM Management
- 3. Conduct programmes on developing FABU Landscape

PERSON IN CHARGE

- Green & Energy Committees FABU

TIMELINE

- 1. Mar & Oct 2019
- 2. Jan – Oct 2019
- 3. Dec 2019

BUDGET

- 1. RM 10,000
- 2. RM 10,000
- 3. RM 20,000

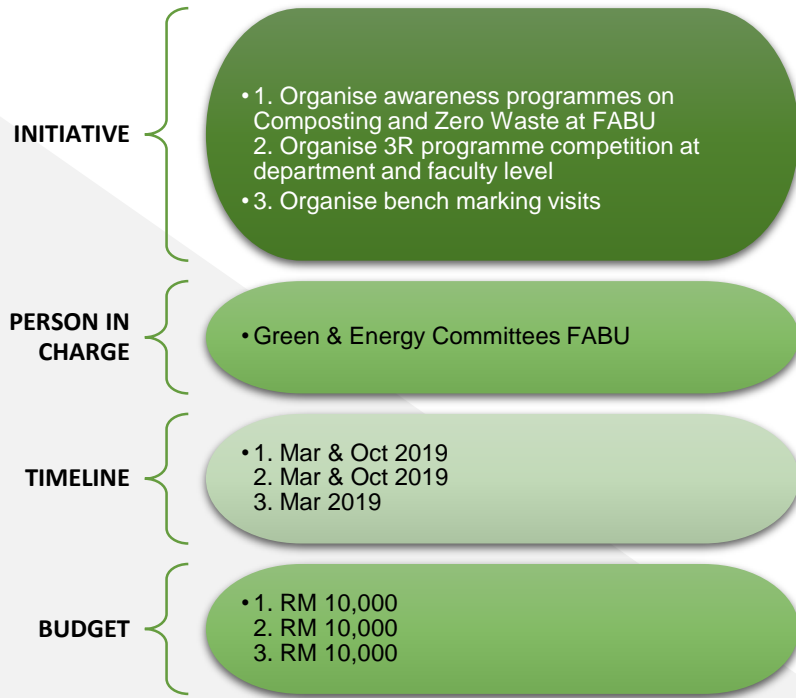
KFA 3

NUMBER OF 3R SUSTAINABLE PROGRAMMES AT FABU

OPERATIONAL DEFINITION

Improve the sustainable management element at FABU to realise the Development Goals (SDGs).

L3.1.2



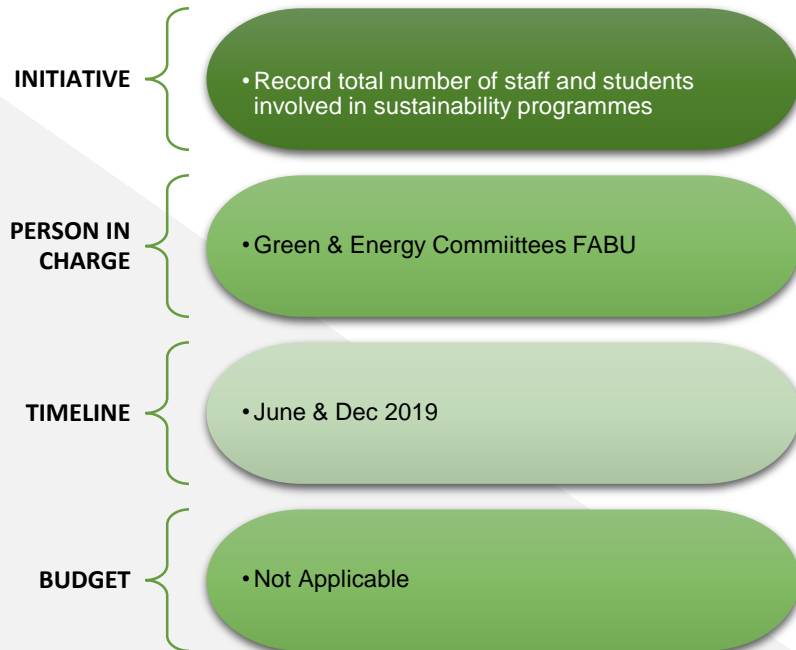
KFA 3

NUMBER OF VOLUNTEERS ON SUSTAINABILITY AT UTM AND NATIONAL LEVELS

OPERATIONAL DEFINITION

Improve the sustainable management elements at FABU to realise the Development Goals (SDGs).

L3.1.3



KFA 3

NUMBER OF PTJ/UNIT THAT ACHIEVED MINIMUM STANDARD (LEVEL 4) OF SUSTAINABILITY AND OCCUPATIONAL HEALTH

OPERATIONAL DEFINITION

Fulfill assessment criteria of Standard (4 Star) of Sustainability and Occupational Health

L3.2

INITIATIVE

- Identify non-compliances and reduce the risk of non-compliances
- Target for 5 star standard through *Green and Safety awarding scale criteria*

PERSON IN CHARGE

- OSHE committee members FABU

TIMELINE

- Jan - Dec 2019

BUDGET

- RM 12,000

KFA 3**NUMBER OF 3R SUSTAINABLE PROGRAMMES AT FABU****OPERATIONAL DEFINITION**

Fulfill assessment criteria of Standard (4 Star) of Sustainability and Occupational Health

L3.2.1**INITIATIVE**

- 1. Conduct ERT exercise programme at FABU
- 2. Conduct Fire Drill
- 3. First Aid programmes

PERSON IN CHARGE

- OSHE committee members FABU

TIMELINE

- 1. Feb 2019
- 2. Apr & Nov 2019
- 3. Sept 2019

BUDGET

- 1. RM 3,000
- 2. RM 3,000
- 3. RM 3,000

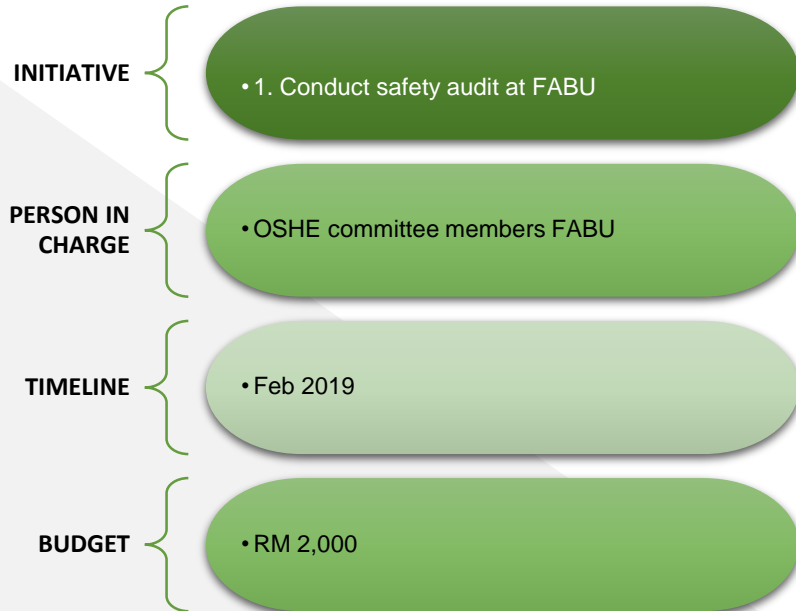
KFA 3

IMPLEMENT HEALTH AND OCCUPATIONAL SAFETY MANAGEMENT AUDIT

OPERATIONAL DEFINITION

Fulfill assessment criteria of Standard (4 Star) of Sustainability and Occupational Health

L3.2.2



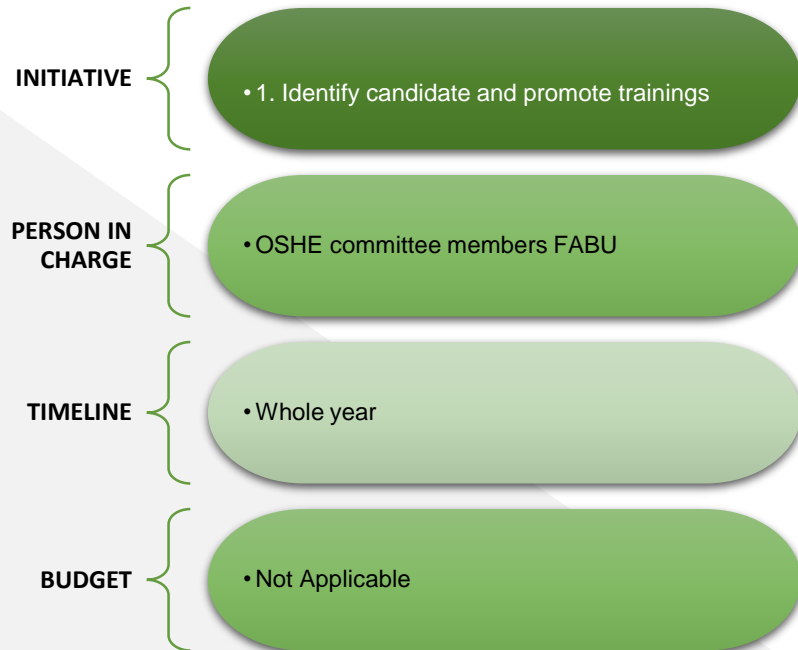
KFA 3

PROMOTING TRAINING SCHEDULE

OPERATIONAL DEFINITION

Fulfill assessment criteria of Standard (4 Star) of Sustainability and Occupational Health

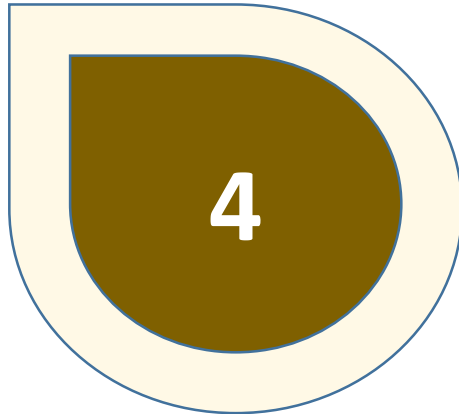
L3.2.3



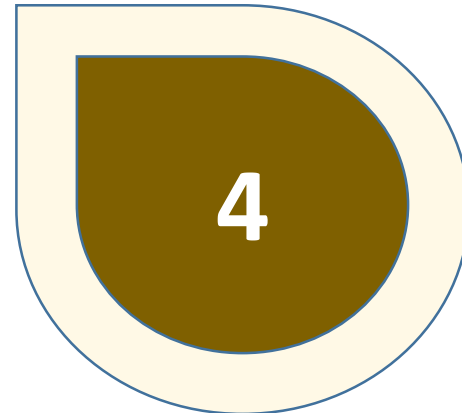
KFA 4

PROFESSIONAL TALENT

STRATEGIES



INITIATIVES





KFA 4

PROFESSIONAL TALENT

OPERATIONAL DEFINITION OF KFA4

The effective, efficient and dynamic governance and service towards quality and excellent service delivery that meet the aspirations and expectations of stakeholders

DEVELOP PROFESSIONALS

KFA 4

OPERATIONAL DEFINITION

To plan, implement, monitor and improve the efficacy of governance through organisational structure, policies and procedures that support the service delivery of core business.

**KAI
FAKULTI**

INITIATIVE

- Develop structure and policies that support FABU talent

PERSON IN CHARGE

- PM Dr Mat Naim / Dr Aimran
- PM Dr Maimunah / PM Dr Nur Emma
- Dr Norliza / Dr. Fara Diva

TIMELINE

- Feb - Nov 2019

BUDGET

- RM 20,000

PROMOTE SUSTAINABLE BUILT ENVIRONMENT

KFA 4

OPERATIONAL DEFINITION

To enhance professional services delivery and competencies for professional registration.



SYNERGIZE PARTNERSHIP

KFA 4

OPERATIONAL DEFINITION

To develop well-planned and synergistic partnership with industries for sustainable development.

**KAI
FAKULTI**

INITIATIVE

- Formulation of linkages

PERSON IN CHARGE

- Prof. Alias Ab Rahman / Dr. Zuhaili
- Dr Robiah / Dr Syamsul Hendra
- PM Dr Zulkipli / Ar Shamsiah

TIMELINE

- Five years plan (2019-2023)

BUDGET

- RM 100,000/yearly

SERVE SOCIETY

KFA 4

OPERATIONAL DEFINITION

To develop structured succession plan for career path and human talent development

KAI
FAKULTI

INITIATIVE

• Establishment of FABU uniqueness and cohesiveness

PERSON IN CHARGE

• PM Dr Sarajul / Dr Kamalahasan
• Dr Rohaya Ab Jalil / PM Dr Kherun Nita

TIMELINE

• Feb - Nov 2019

BUDGET

• Not Applicable

A circular logo with a brown center containing the text 'KFA 5' in white. The center is surrounded by concentric rings of light brown and dark brown, with a stylized 'K' shape cutout on the right side.

KFA 5

A horizontal brown banner with the text 'SUSTAINABLE PROSPERITY' in white, serif, uppercase letters.

SUSTAINABLE PROSPERITY

STRATEGIES

INITIATIVES





KFA 5

SUSTAINABLE PROSPERITY

OPERATIONAL DEFINITION OF KFA5

Ensuring UTM has a sustainable source of income through the internal sources of revenue generation to lessen the dependency on government financial grants. The ratio of internal resource generation to government funding is 30:70 by 2020. Eight key areas for the income generation are:

1. Academic-based program
2. Consultancy, commercialization and R&D grants
3. Business entities
4. Assets and land bank
5. Medical, residential college, and other facilities
6. Contributions from contributors
7. Human resource development
8. University's investment

INTERNAL INCOME GENERATED THROUGH VARIOUS SOURCES

KFA 5

OPERATIONAL DEFINITION

Total income generated through academic programmes, philanthropy/donations, various investments and asset monetization

F2.1

INITIATIVE

• Academic programmes, students enrolment, industry learning space, new programmes, summer programmes, student exchange, service based income generation, income generation through space rental, asset, fund raising, wakaf acceptance of in kind services and saving

PERSON IN CHARGE

• Staff FABU

TIMELINE

• Jan - Dec 2019

BUDGET

• RM 1,964,000

MAIN ACADEMIC PROGRAMMES

KFA 5

OPERATIONAL DEFINITION

Total income generated through academic programmes

F2.1.1

INITIATIVE

- 1. Academic Programme- continue and optimise the on going UG and PG programmes.
- 2. Student Enrolment- increase the capacity and entry of UG and PG students to:
 - (a) BSc Property Management (80 students)
 - (b) BSc LAD (80 students)
 - (c) BSc (LA) (40 students)
 - (d) BSc Geomatik (80 students)
 - (e) BSc Geoinformasi (80 students)

PERSON IN CHARGE

- Deputy Dean (Academic)/ Directors/ UG Programme Coordinators

TIMELINE

- Feb- Aug 2019
- Sept 2019 - Jan 2020

BUDGET

- 1. RM 1,400,000
- 2. RM 20,000
- RM 1,964,000

MAIN ACADEMIC PROGRAMMES (CONT')

KFA 5

OPERATIONAL DEFINITION

Total income generated through academic programmes

F2.1.1

INITIATIVE

- Student Enrolment– increase the capacity and enrolment of UG students (IDP) to:
 - (a) BSc Property Management (15 students)
 - (b) BSc LAD (15 students)
 - (c) BSc (LA) (10 students)
 - (d) BSc Geomatik (15 students)
 - (e) BSc Geoinformasi (15 students)
 - (f) BSc QS (15 students)
 - (g) B Arch (15 students)

PERSON IN CHARGE

- Assistant Dean SPACE/ SPACE Programme Coordinators

TIMELINE

- Feb- Aug 2019
Sept 2019 - Jan 2020

BUDGET

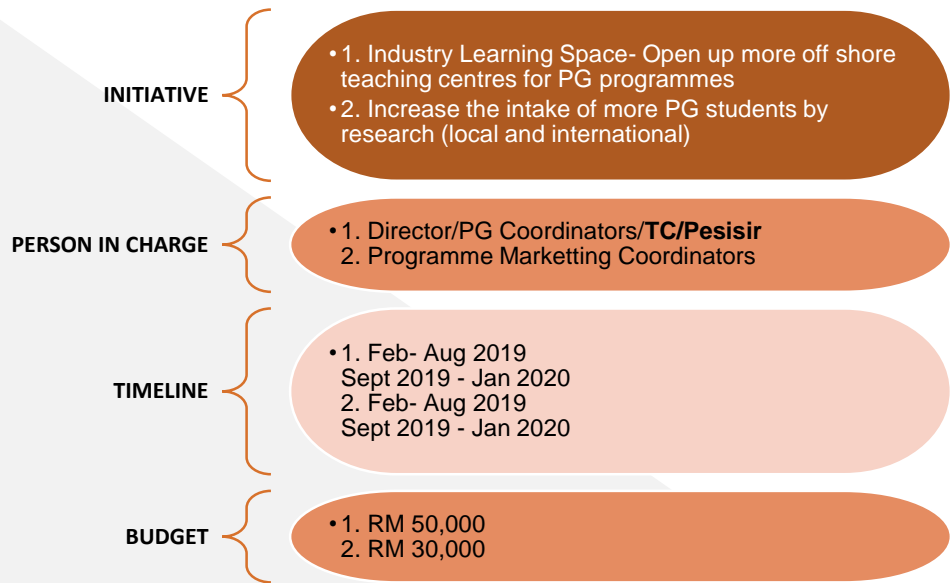
- RM 10,000

MAIN ACADEMIC PROGRAMMES (CONT')

KFA 5

OPERATIONAL DEFINITION

Total income generated through academic programmes.

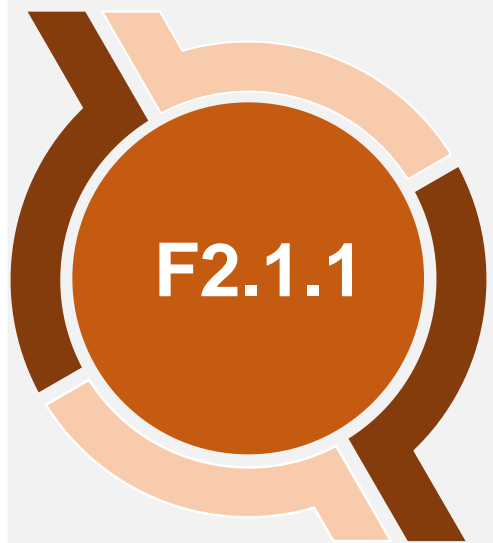


MAIN ACADEMIC PROGRAMMES (CONT')

KFA 5

OPERATIONAL DEFINITION

Total income generated through academic programmes.



INITIATIVE

- 1. New Programmes– Offer new programmes; MSc Construction Commercial Management (15 students), MSc Logistics and Transportation Planning (15 students).
- 2. Increase PhD Industry and PhD (Remote Supervision of Postgraduate Program) – at ITS Surabaya and Universiti Bung Hatta, Padang; USU (Universiti Sumatra Utara) – approximately 15 students

PERSON IN CHARGE

- 1. Dr. Muzani & PM Dr Muhd Zaly Shah
- 2. PG (Research) Coordinators

TIMELINE

- 1. Feb- Aug 2019
Sept 2019 - Jan 2020
- 2. Feb- Aug 2019
Sept 2019 - Jan 2020

BUDGET

- 1. RM 20,000
- 2. RM 60,000

INCOME GENERATION THROUGH PRODUCTS AND SERVICES (BASED ON DEMAND)

KFA 5

OPERATIONAL DEFINITION

Total income generated through Products and services

F2.1.4

INITIATIVE

- Income generation through services- training/seminar:
 1. Mosque facility management Conference
 2. GGT GeoSpatial KL 2019
 3. LADM 2019
 4. SDSC 2019
 5. PRAXIS
 6. Joint Conference UN Sabah
 7. IWICME 2019
 8. Heritage Identity Surabaya 2019
 9. Engagement with new ministries, engagement with industries, players, product and community engagement

PERSON IN CHARGE

- 1. PM Dr. Maimunah Sapri
- 2 – 4. Prof Alias
- 5. Dr. Halim
- 6. Dr. Norhazliza
- 7. PM Dr. Sarajul
- 8. Dr. Raja Nafida
- 9. Prof Hamdan

TIMELINE

- 1 – 9. Feb- Aug 2019
- Sept 2019 - Jan 2020

BUDGET

- RM 140,000

INCOME GENERATION THROUGH PRODUCTS AND SERVICES (BASED ON DEMAND)

KFA 5

OPERATIONAL DEFINITION

Total income generated through Products and services



INITIAITVE

- 1. Income generation through space rental and car parking
- 2. Income generation based on asset– printing services, products

PERSON IN CHARGE

- Assistant Registrar

TIMELINE

- Feb - Aug 2019, Sept 2019 - Jan 2020

BUDGET

- 1. RM 50,000
- 2. Not Applicable

FACULTY ENDOWMENT FUND

KFA 5

OPERATIONAL DEFINITION

Total income generated through Endowment (UTM staff, alumni etc.)



INITIATIVE

- 1. Fund Raising - Organise Fund Raising Alumni Dinner based on programmes/disciplines (Archi, QS, Town Planning, Land Survey, Land Property, Landscape) RM100,000 per programme
- 2. Wakaf –tax exemption, space and facilities at FABU by alumni philanthropies (RM50 ,000 per programme/ discipline)

PERSON IN CHARGE

- 1. Programme Directors to name Alumni Coordinator for every programme/discipline
- 2. AD Global with Alumni Coordinator name representative for each programme

TIMELINE

- Feb - Aug 2019, Sept 2019 - Jan 2020

BUDGET

- 1. RM 140,000
- 2. Not Applicable

EFFICIENT FINANCIAL AND RESOURCE MANAGEMENT

KFA 5

OPERATIONAL DEFINITION

Total income generated through saving on printing, utilities etc.



INITIAITVE

- 1. Saving – Saving on printing (10% from operational expenditure- (RM30,000)
- 2. In-kind – JUPEM (10 total station worth of RM300,000), Landscape (Karnival Lestari Iskandar Putri 2019 RM34,000), QS (Upgrade studio from alumni QS RM50,000)

PERSON IN CHARGE

- 1. Deputy Dean (Academic)
- 2. Directors Geoinfo, Landscape Architect and QS

TIMELINE

- Feb - Aug 2019, Sept 2019 - Jan 2020

BUDGET

- Not Applicable



KFA 6



BE A GLOBAL BRAND

STRATEGIES

INITIATIVES



12



18



KFA 6

BE A GLOBAL BRAND

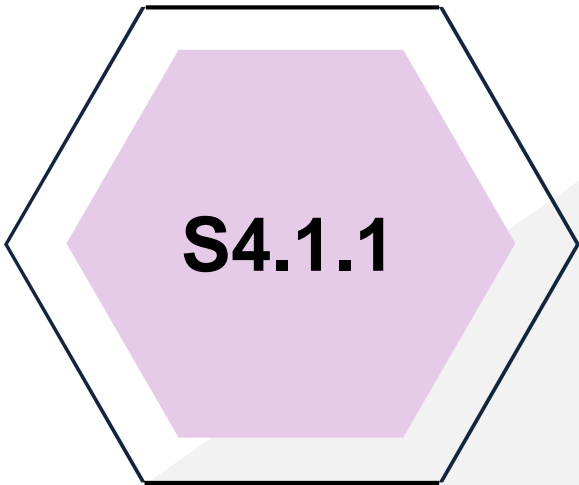
OPERATIONAL DEFINITION OF KFA6

Continuously improving university's global visibility as a preferred brand in Science, Technology, and Engineering.

NUMBER OF INTERNATIONAL ACTIVITIES/ PROGRAMMES PARTICIPATED BY STAFF MEMBERS AS SPEAKERS, MEMBERS, EXTERNAL EXAMINERS, VISITING LECTURERS ETC

OPERATIONAL DEFINITION

Participation of FABU staff members in any international activities such as conference, workshop, meeting, visit etc. inside and outside Malaysia.



INITIATIVE

- Upgrading faculty website to highlight the talents (Briefly).
- Update talent's personal website (people.utm.my) to highlight research, publications and post-grad supervision. (Request a softcopy of resume & 1 person in charge of updating personal websites).
- Improve the reporting of activities/achievement via 'google form'. Monthly analysis will be posted on FABU All Staff WhatsApp group.
- FABU Talents' Biography Book.

PERSON IN CHARGE

• IT manager & ADEGE

TIMELINE

• 1st and 2nd quarter 2019

BUDGET

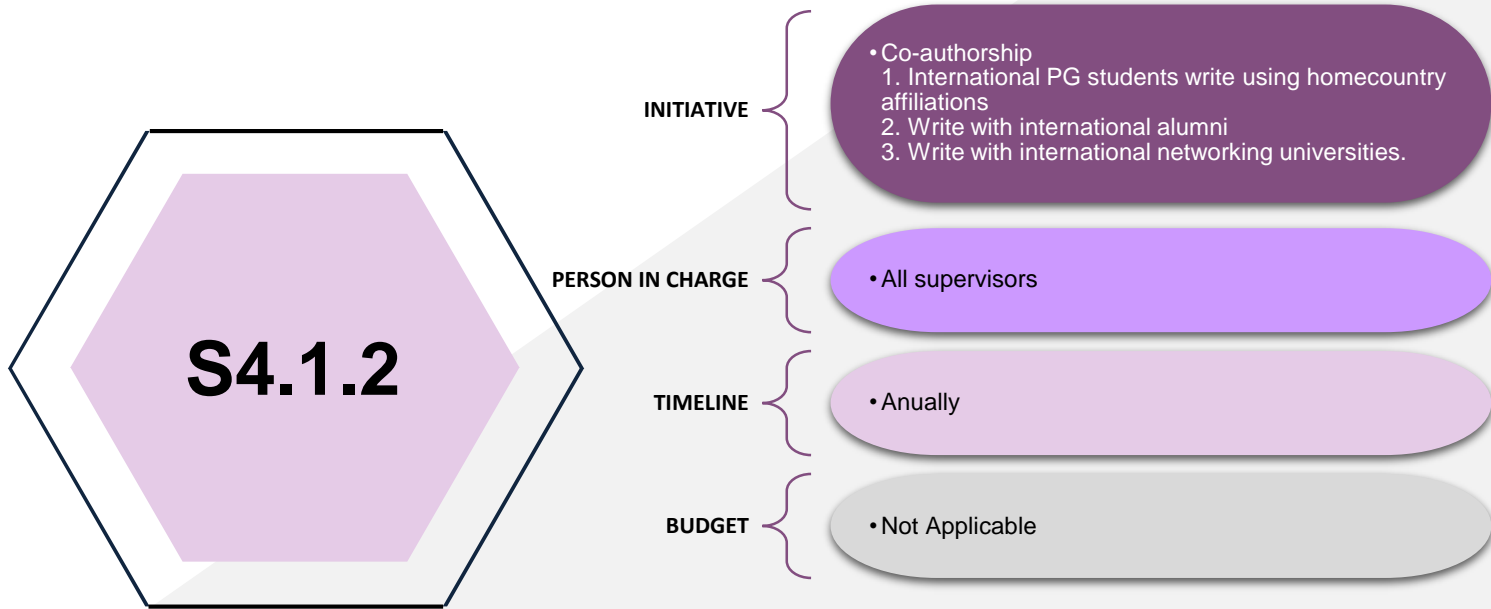
• RM 5,000

NUMBER OF IMPACTFUL ACTIVITIES BY INTERNATIONAL PARTNERS

KFA 6

OPERATIONAL DEFINITION

Activities carried out within partnership such as co-authorship, examiners, seminars, conferences, meetings, visits etc.

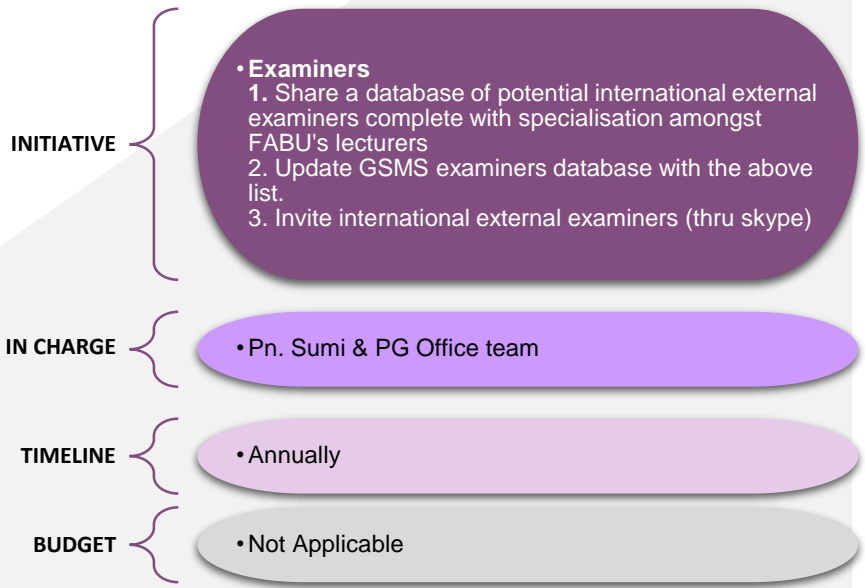
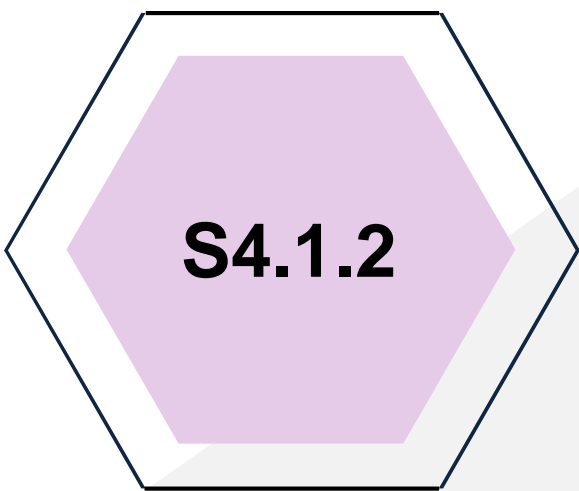


NUMBER OF IMPACTFUL ACTIVITIES BY INTERNATIONAL PARTNERS (SAMBUNGAN)



OPERATIONAL DEFINITION

Activities carried out within partnership such as co-authorship, examiners, seminars, conferences, meetings, visits etc.

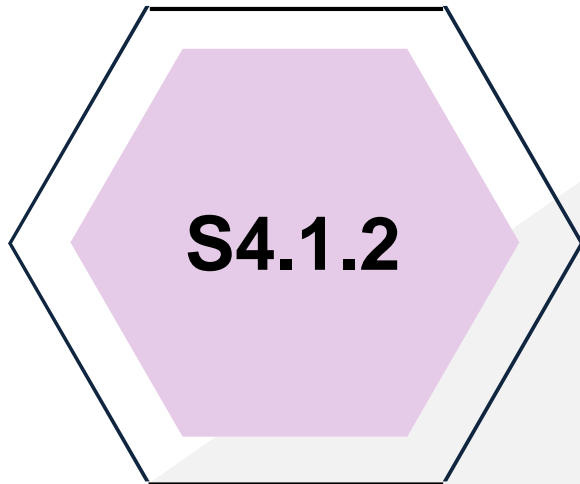


NUMBER OF IMPACTFUL ACTIVITIES BY INTERNATIONAL PARTNERS (SAMBUNGAN)

KFA 6

OPERATIONAL DEFINITION

Activities carried out within partnership such as co-authorship, examiners, seminars, conferences, meetings, visits etc.



INITIATIVE

- Seminars/Conferences
 1. OG conference
 2. Seminar
 3. Colloquium
- Research – Joint research (Networking & PG students)

PERSON IN CHARGE

- Deputy Dean (Research, Development & Alumni), Pn. Sumi & PGSS and Head of RGs

TIMELINE

- Anually

BUDGET

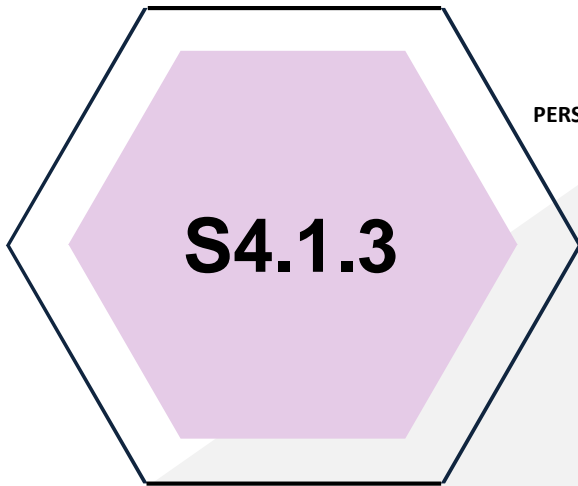
- Not Available

NUMBER OF INTERNATIONAL CONFERENCE ORGANIZED BY PTJ

KFA 6

OPERATIONAL DEFINITION

Number of international conferences conducted by FABU inside and outside Malaysia



INITIATIVE

- Identify recurring/committed conference involved/hosted by each department ie. QS - RISM-RICS ISCU, QSIC RE - SIMPI SBL - ALAM

PERSON IN CHARGE

- Directors

TIMELINE

- Anually

BUDGET

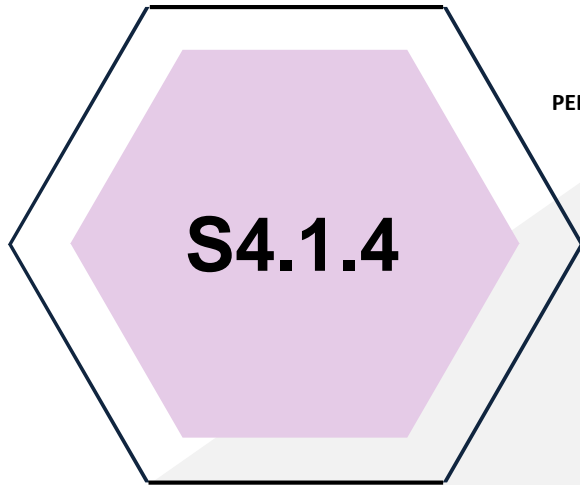
- Not Applicable

FACULTY/STUDENT RATIO

KFA 6

OPERATIONAL DEFINITION

Number of total academic staff and research staff per total student (Total Staff / Total Student)



INITIATIVE

• Not Available

PERSON IN CHARGE

• Assoc Prof. Dr. Zulkepli Majid and Mrs. Zulaika Md Khalid

TIMELINE

• Not Available

BUDGET

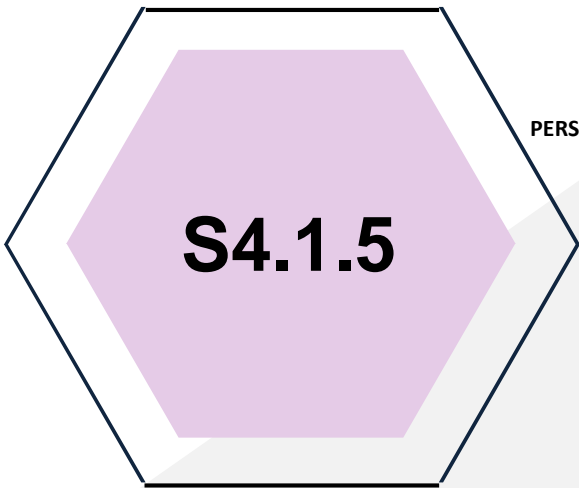
• Not Applicable

TOTAL NUMBER OF INTERNATIONAL FACULTY (INCL POST DOCS / VISITING SCHOLARS) OVER TOTAL NUMBER OF STUDENTS AT FABU



OPERATIONAL DEFINITION

International academic and research Staff / total academic and research Staff Current data : 5%



- INITIATIVE**
 - Identify visiting international staff
 - Recruit from excellent international PG student as Post Doc candidates
- PERSON IN CHARGE**
 - Directors & Head of RGs
- TIMELINE**
 - Annually
- BUDGET**
 - Not Applicable

TOTAL NUMBER OF INTERNATIONAL STUDENT OVER TOTAL NUMBER OF STUDENTS AT THAT INSTITUTION

KFA 6

OPERATIONAL DEFINITION

Number of total staff per total student



S4.1.6

INITIATIVE

• Not Available

PERSON IN CHARGE

• Not Available

TIMELINE

• Not Available

BUDGET

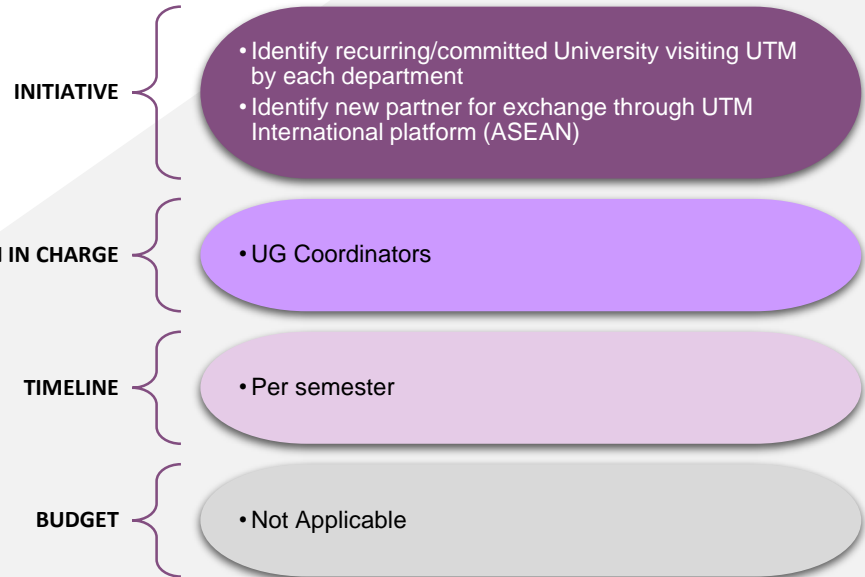
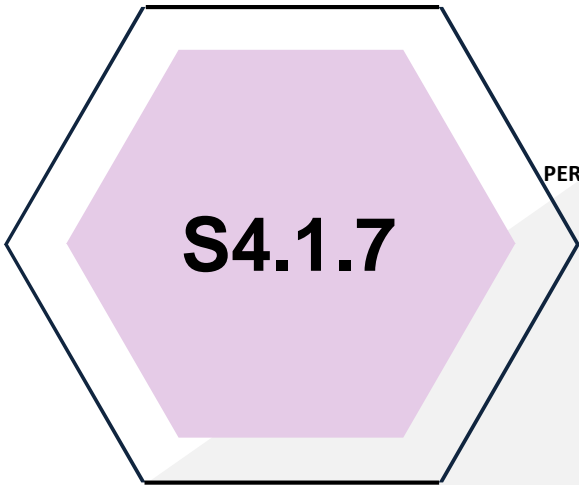
• Not Applicable

PERCENTAGE INCREASE NUMBER OF STUDENT PARTICIPATION IN MOBILITY PROGRAMMES



OPERATIONAL DEFINITION

International academic and research Staff / total academic and research Staff Current data : 5%

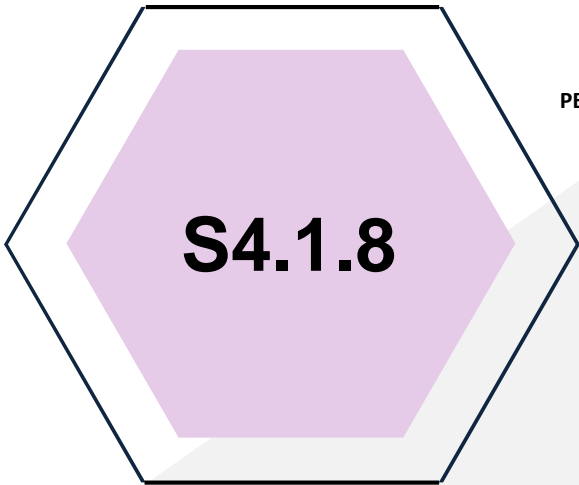


MAINTAIN DATABASE OF ACADEMIC AND INDUSTRY PEERS



OPERATIONAL DEFINITION

New contacts of academic and industry peers to be nominated as reviewer



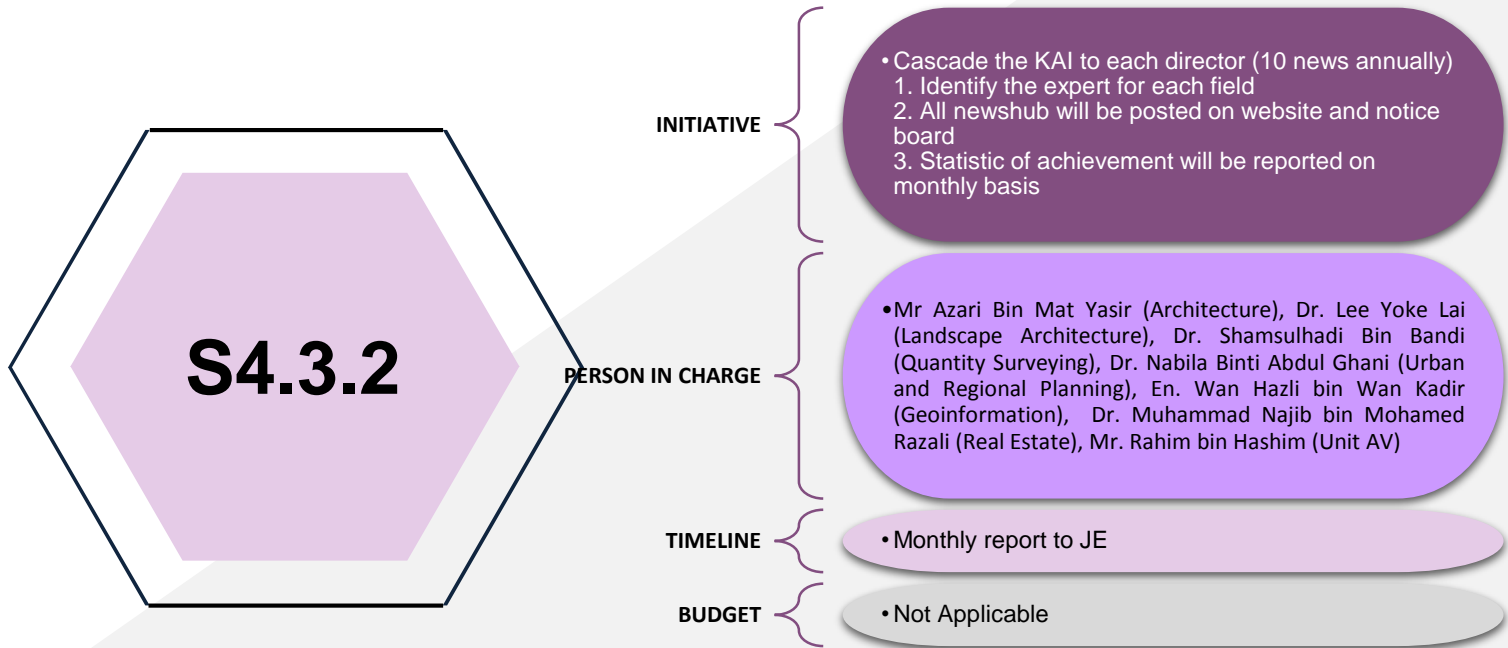
INITIATIVE	• Identify the current staff involved as the editorial board in various journals
PERSON IN CHARGE	• ADEGE and Directors
TIMELINE	• 1st Quarter 2019
BUDGET	• Not Applicable

NUMBER OF PROMOTIONAL ARTICLES IN UTM NEWSHUB

KFA 6

OPERATIONAL DEFINITION

Number of promotional articles in UTM newshub.

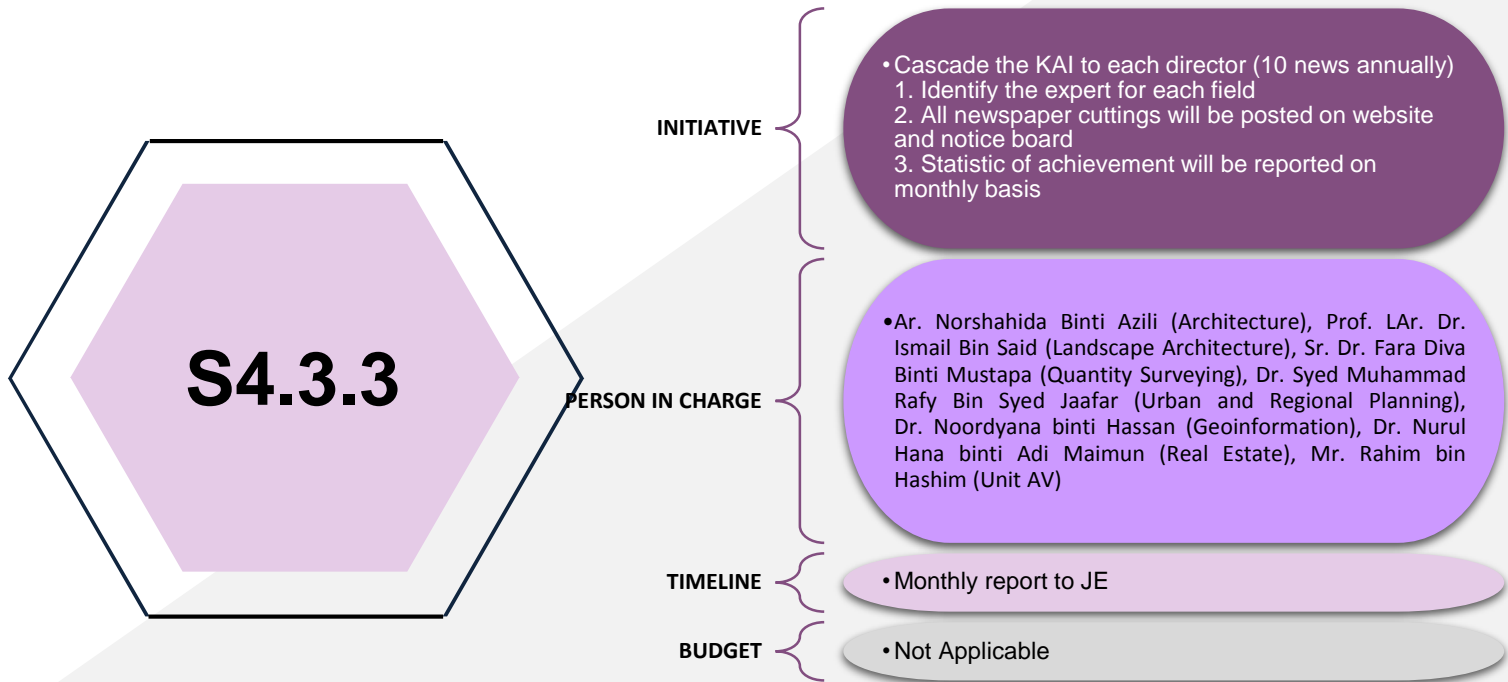


NUMBER OF NATIONAL AND INTERNATIONAL MEDIA COVERAGE

KFA 6

OPERATIONAL DEFINITION

Number of national and international media coverage.

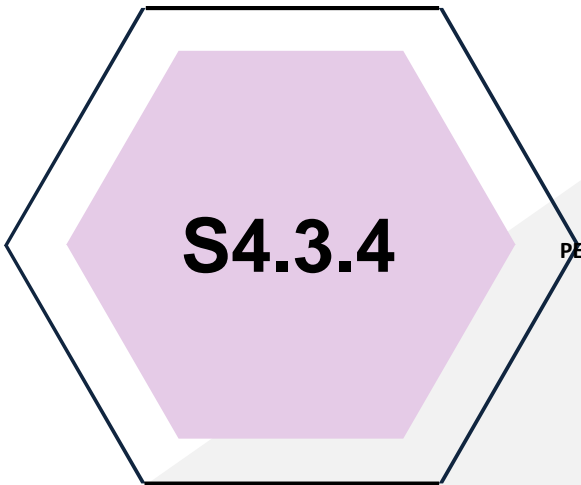


NUMBER OF PROMOTIONAL ARTICLES IN UTM SUCCES STORIES



OPERATIONAL DEFINITION

Number of utm success story articles..



INITIATIVE

- Cascade the KAI to each director (4 videos annually) – 4 segments ; Staff, Alumni, UG, PG
 1. Identify the expert for each field
 2. All video will be posted on social media platform
 3. Statistic of achievement will be reported on 2nd quarter

PERSON IN CHARGE

- Dr. Leng Pau Chung (Architecture), Dr. Zanariah Binti Jasmani (Landscape Architecture), Dr. Norhazren Izatie Binti Mohd (Quantity Surveying), Dr. Noor Aimran bin Samsudin (Urban and Regional Planning), Dr. Wan Anom binti Wan Aris (Geoinformation), Dr. Wilson Rangga Anak Anthony Jiram (Real Estate), Mr. Rahim bin Hashim (Unit AV)

TIMELINE

- Monthly report to JE

BUDGET

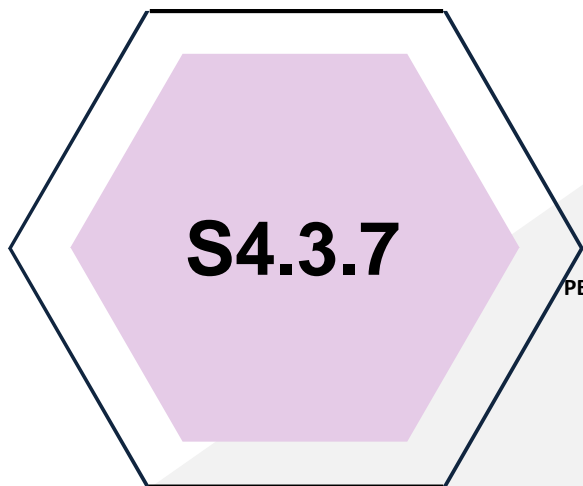
- Not Applicable

NUMBER OF CO-BRANDING PARTNERSHIPS

KFA 6

OPERATIONAL DEFINITION

Profiling of UTM collaboration with industries, communities, stakeholders and Johor state.



INITIATIVE

- Identify continuous/recurring/committed Universities visiting UTM by each department
- Cascade the KAI to each director (2 collaborations)
- Create short video to summarise and will be posted on social media platform
- Statistic of achievement will be reported on 2nd quarter

PERSON IN CHARGE

- Ar. Samsiah Binti Abdullah (Architecture), Dr. Norliza Binti Mohd Isa (Landscape Architecture), Dr. Syamsul Hendra Bin Mahmud (Quantity Surveying), Dr. Norhazliza Binti Abd Halim (Urban and Regional Planning), Dr. Othman bin Zainon (Geoinformation), Dr. Robiah binti Suratman (Real Estate)

TIMELINE

- 2nd quarter 2019 and 4th quarter 2019

BUDGET

- Not Applicable

ACKNOWLEDGEMENTS

ADVISORS :

Prof Ts. Dr. Mohd. Hamdan Hj. Ahmad
 Assoc Prof. Sr Dr. Razali Adul Hamid
 Assoc Prof. Dr. Zulkepli Majid
 Assoc Prof. Dr. Kasturi Devi A/P Kanniah
 Assoc Prof. Dr. Zulkarnaini Mat Amin
 Assoc Prof. Dr. Dzurlkhanian @ Zulkarnain Bin Daud
 Assoc Prof. TPr Dr. Hairul Nizam
 Assoc Prof. Sr Dr. Sarajul Fikri Mohamed
 Sr Dr. Mohd Nadzri Jaafar
 Dr. Abdul Halim Hussein
 Lar Dr. Sapura Mohamad
 Sr Dr. Zuhaili Mohamad Ramly
 Mr. Abdul Jalil Maulani
 Mrs. Zulaika Md Khalid
 Mr. Nurul Amrie Abdullah
 Mrs. Sumi Isman
 Mr. Abdul Haris Ismail

TASK FORCE :

KFA 1 : PROFESSIONAL BASED BE EDUCATION

Assoc Prof. Sr Dr. Razali Adul Hamid(Leader), Assoc Prof. Sr. Dr. Zulkarnain bin Mat Amin, Mr. Nurul Amrie Abdullah, Assoc Prof. Dr. Raja Nafida Bte Raja Shahminan, Dr. Muhammad Najib bin Mohamed Razali, Sr. Dr. Ami Hassan bin Md. Din, Puan Harlina Bt Jaafar

KFA 2 : RESEARCH SMART PARTNERSHIP WITH INDUSTRY

Assoc Prof. Dr. Zulkepli Majid (Leader), Assoc Prof. Sr. Dr. Zulkarnain bin Mat Amin, Mrs. Sumi Isman, Prof. Sr. Dr. Mazlan bin Hashim, Assoc Prof. Dr. Muhd Zaly Shah bin Muhd Hussein, Assoc Prof Dr. Tajul Ariffin bin Musa, Mr. Mohd Faizi bin Mohd Salleh

KFA 3 : SUSTAINABLE LIVING ENVIRONMENT

Mr. Abdul Jalil bin Maulani (Leader), Lar. Dr.Sapura bt Mohamad, Dr. Syamsul Hendra bin Mahmud, Assoc Prof. Dr. Mohd Saidin bin Misnan, Dr. Abd Halim bin Hamzah, Mr. Abdul Haris bin Ismail, Mr. Ngishak bin Khusairi, Mr. Saharudin bin Hassan, Mr. Anuar bin Aspuri

KFA 4 : PROFESSIONAL TALENT

Assoc Prof. Dr. Sarajul Fikri bin Mohamed (Leader), Mrs. Zulaika bt Md. Khalid, Assoc Prof. Dr. Mat Naim bin Abdullah @ Mohd Asmoni, Assoc Prof. Dr. Maimunah bt Sapri, Dr. Roshida bt Abdul Majid, Dr. Wan Ibrisam Fikry bin Wan Ismail, Dr. Norliza bt Mohd Isa

KFA 5 : SUSTAINABLE PROSPERITY

Sr. Dr. Mohd Nadzri bin Jaafar (Leader), Dr. Abdul Halim bin Hussein, Prof. Dr. Hishamuddin bin Mohd Ali, Prof Dr. Syed Ahmad Iskandar bin Syed Ariffin, Assoc Prof. Dr. Fadhlin@Chewan Dhee Abdullah, Dr. Siti Hajar bt Misnan

ACKNOWLEDGEMENTS

TASK FORCE :

KFA 6 : BE A GLOBAL BRAND

Sr. Dr. Zuhaili bin Mohamad Ramly (Leader), Assoc Prof. TPr. Dr. Hairul Nizam bin Ismail, Prof. Dr. Hasanuddin bin Lamit, Prof. Dr. Mohammad Rafee bin Majid, Dr. Mohd Rizaludin bin Mahmud

FACILITATORS :

Prof. Dr. Rose Alinda Bt. Alias

EDITORS :

Assoc Prof. Dr. Kasturi Devi A/P Kanniah
Mrs. Nur Aqeela Binti Ismail
Mrs. Nur Hanna Diana Binti Turiman

SECRETARIAT:

Mrs. Nur Hanna Diana Binti Turiman
Ms. Intan Nursuryana Binti Zakaria
Mrs. Fatimawati Binti Masari
Mr. Iqmal Nor Bin Mohd Noh

GRAPHIC DESIGNERS :

Mrs. Nur Aqeela Binti Ismail
Mr. Mohamad Firdaus Bin Hashim