

**ITEX'19**  
30TH INTERNATIONAL INVENTION, INNOVATION &  
TECHNOLOGY EXHIBITION, MALAYSIA

CONCURRENT EXHIBITION

**WYIE** WORLD  
YOUNG  
INVENTORS  
EXHIBITION

INCORPORATING

**AYIE**

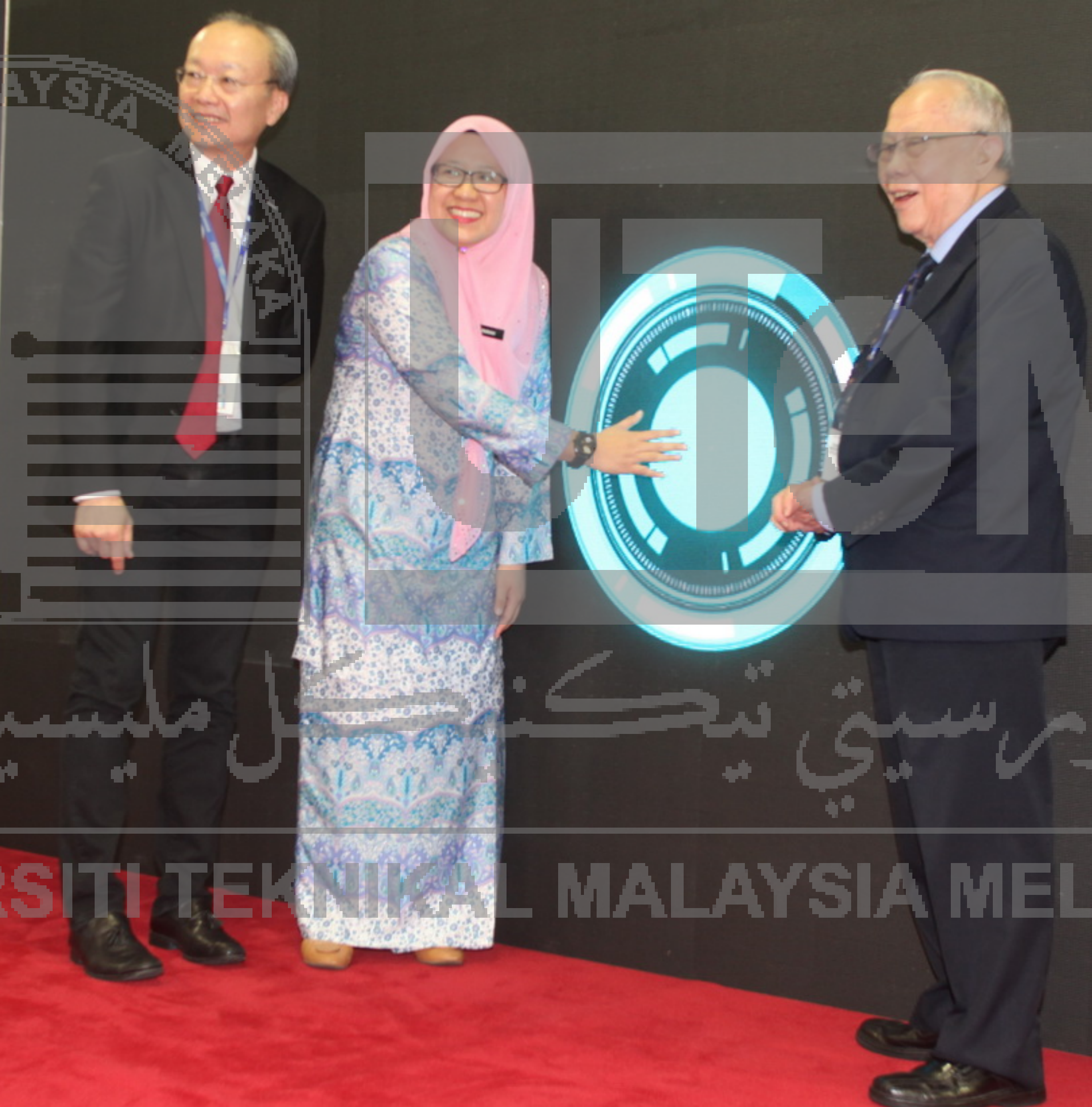
**MYIE**

30  
YEARS

[www.ITEX.com.my](http://www.ITEX.com.my)

اونيومر سيني تيكنيكل ماليسيا ملاك

UNIVERSITI TEKNIKAL MALAYSIA MELAKA







# ITEX '19

30th INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION, MALAYSIA

# ITEX '19

30th INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION, MALAYSIA

JOINTLY ORGANISED BY

- MINDS (Malaysian Invention and Design Society) 2008
- CIS

OFFICIAL EVENT OF

- ACIA (Association of Creative Inventors and Artists)
- WIR (World Intellectual Property Rights)

SUPPORTED BY

- Ministry of Energy, Science, Technology, Innovation & Creative Economy
- Ministry of Education
- Ministry of Science, Technology & Innovation
- IFIA (International Federation of Inventors' Associations)
- MyIPO (My Intellectual Property Office)

Official Partner

MINDS founder  
Academician Emeritus  
Dr. Augustine S...



30 years DRIVING INNOVATION

www.ITEX.com.my

## UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Hall 3 Dewan





Hall 5

Hall 5

ECO-HELMET (RSD) "SAFETY FROM NATURE"

THE 10th NATIONAL TECHNICAL AWARD 2011

UNIVERSITI SULTAN ZAINAL ABIDIN (USZ)

5K137

SULTAN ZAINAL ABIDIN (USZ)

UNIVERSITI TEKNIKA MALAYA MELAKA



5K137

UNIVERSITI SULTAN ZAINAL ABIDIN (UNISZA)

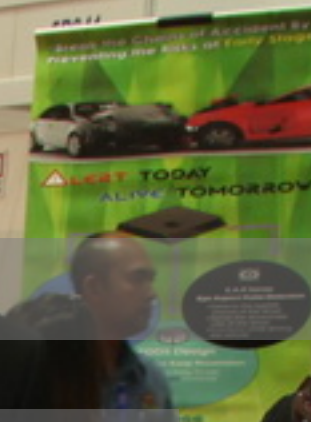
5K137

4P345

UNIVERSITI KUALA LUMPUR

PROSPERING

THROUGH



UNIVERSITI TEKNIKAL MALAYSIA MELAKA







4P345

UNIVERSITI KUALA LUMPUR

UNIVERSITI KUALA LUMPUR

TINTA

TeM

JUDGE

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اونیورسیتی تکنیکل مالایسیا ملاک



UNIVERSITI KUALA LUMPUR

4745



اوتونوم سيپتي كنيكل مايب ملاك  
UNIVERSITI TEKNIKAL MALAYSIA MELAKA







وینور سیپی بی بی سی مالاک

UNIVERSITI TEKNIKAL MALAYSIA MELAKA



**UTeM**  
ECO-HELMET (ECOL)  
"SAFETY FROM NATURE"

**Abstract/ Product Description**

**Novelty/Inventiveness**

**Commercialization**

**UTeM**  
THE "K" PAINTBALL TACTICAL  
ARMOUR VEST

**Abstract/ Product Description**

**Commercialization**



UNIVERSITI TEKNIKA MALAYSIA MELAKA

UNIVERSITI SULTAN ZAINAL ABIDIN (UNISZA)

5K137



**ECO-HELMET (ECOL) "SAFETY FROM NATURE"**

**Abstract/ Product Description**

This innovation optimized 100% Malaysia local raw material in construction of helmet. Whereas, the shell made from stitched woven roving of kenaf (novel technique for stitched) - improve impact energy absorbing at minimum thickness and inner foam also made from kenaf foam (novel technique for kenaf foam of impact energy of superlight weight). Thus, this innovation has greatly impacted to the community (motorcyclists-motorcyclist) due to the great performance of lightweight of product, locally can be fabricated by small industry due to low technology used. Investment, empowered kenaf plantation and economic grow to farmers due to low risk of investment - nothing goes waste!

**Performance**

3.5 Times Safer!

**Novelty/Inventiveness**

- Natural kenaf fibre material.
- Woven kenaf fabric as stitching pattern.
- Use kenaf foam as inner padding.
- The kenaf fibre is used as reinforcement.

**Commercialization Potential**

Due to the safety regulation of JPJ, the helmet must be made from high quality material. Hence, due to the lightweight and high performance, it is believed to be suitable for the market.

**THE "K" PAINTBALL TACTICAL ARMOUR VEST**

**Abstract/ Product Description**

This innovation optimized 100% Malaysia local raw material Kenaf for the construction of Paintball Tactical Armour Vest. Whereas, the plate is made from 100% stitched woven roving of kenaf (novel technique for stitched) - improve impact energy absorbing at minimum thickness of 3.61 mm) and binder of material is thermoplastic Polypropylene. Thus, this innovation has greatly impacted to the community (outdoor sport activities) due to the high durability and lightweight of product, locally can be fabricated by small industry due to low technology used and low risk of investment, empowered kenaf plantation and economic grow to farmers due to low risk of investment - nothing goes waste!

**Novelty/Inventiveness**

- 1st panel made from kenaf fibre material for paintball.
- Woven kenaf fabric as stitching pattern.
- Tilt 60° to the body-stitched angle.
- Unique sequence layering and orientation of stitching for excellent performance.
- Simple technology of fabrication outweigh cost.

**Commercialization Potential**

- For those of paintball sports.



UNIVERSITI TEKNIKAL MALAYSIA MELAKA





اوتیور سیتی

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UNIVERSITI KUALA LUMPUR

4P345

UNIVERSITI KUALA LUMPUR

4P345



M INDUS



manfortlab.com





5K140

UNIVERSITI SULTAN ZAINAL ABIDIN (UNISZA)

5K137

UNIVERSITI SULTAN ZAINAL ABIDIN (UNISZA)

5K137

UNIVERSITI SULTAN ZAINAL ABIDIN (UNISZA)

MUETlex

200 most frequent words  
from past year MUE

- LISTENING
- SPEAKING
- READING

FEATU



Word

Offline pronunciation

Definition (Bahasa Melayu)

Example of sentence (Bahasa Melayu)

UNIVERSITI TEKNIKAL MALAYSIA MELAKA





UNIVERSITI TEKNIKAL MALAYSIA MELAKA

4J123

Ha Dewa

Cafe late

PROSPERING

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UNIVERSITI TEKNIKAL MALAYSIA MELAKA





5K137

ADIN (UNISZA)

5K137

PROSPERING

UNIVERSITI PUTRA MALAYSIA

4P345

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اونيورسي تيكنيكي ملقا







UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اوديوتر سبيج تنيكسيك

UNIVERSITI TEKNIKAL MALAYSIA MELAKA





UNIVERSITI S

5K137

PROSPERITI

UNIVERSITI PUTRA MALAYSIA

UNIVERSITI K

4P345

UNIVERSITI TEKNIKAL MALAYSIA MELAKA





4P345

UNIVERSITI SUL

UNIVERSITI MALAYSIA

UNIVERSITI PUTRA MALAYSIA

UNIVER

اوبنور سينس  
UNIVERSITI TEKNIKAL MALAYSIA MELAKA





UNIVERSITI SULTAN ZAINAL

137

UNIVERSITI PUTRA MALAYSIA

UNIVERSITI KUALA

4P345

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UNIVERSITI TEKNIKAL MALAYSIA MELAKA





UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اوپنور سیتی تیکنی مالاک  
UNIVERSITY TECHNICAL MALAYSIA MELAKA





UNIVERSITI TEKNIKAL MALAYSIA MELAKA

اوپن سیتی تیکنی

UNIVERSITI TEKNIKAL MALAYSIA MELAKA





اویونر سیپی  
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

IDIN (UNISZA)

5K

SULTAN ZAINAL ABIDIN (UNISZA)

5K137

PROSPERING

UNIVERSITI PUTRA MALAYSIA

LA LUMPUR

ITEK

RESEARCH  
C  
P

