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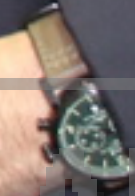


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Project/Grant  
No. 1/JABAL/2016/  
No. CAH/100017

Contact info  
UNIVERSITI TEKNIKAL MALAYSIA MELAKA  
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76100 Durian Tunggal, Melaka  
Tel: 60-276 1202 / 1203 / 1204  
Fax: 60-276 1032  
Email: [info@utem.edu.my](mailto:info@utem.edu.my)

**Novelty/  
Inventiveness**

- Simple design
- Portable, Low cost
- Functional
- Easy to operate
- Reliable

**Industrial  
Collaboration**

- Jabal Circuit Sdn Bhd,  
Pulau Pinang, Malaysia

**Commercialization Potential**

Based on market research, the flexible electronics market is projected to reach USD 1.2 billion by 2025 (at cumulative annual growth rate of 15.5%). The market is driven by defense and aerospace, consumer and industrial applications such as wearables, smart packaging, and smart infrastructure. The Malaysian National Graphene Action Plan (MNGAP) has identified flexible electronics as one of the key areas for development in the Malaysian industries for competing in the global market. The test apparatus is essential to support the flexible electronics industry, especially in higher education institutions, under cyclic loading conditions.

**Publication**

1. M. R. Mansor, M. K. Sulaiman, & K. K. Raju. Design and fabrication of cyclic bending test apparatus for flexible electronics. Proceedings of 2nd Colloquium on Advanced Materials and Nanotechnology (CAMNER), Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka, Melaka, Malaysia, 2016.
2. Siti Khuzaimah Mohd Amin, Mohd Ridwan Mansor, Nurhuda Ismail, Nurul Huda Ismail, Masriqan, and Hartini Saad. Shear Resilivity of Square-Shaped Flexible Electronics Circuit With. Proceedings of International Conference on Sustainable Engineering, Learning and Management 2016, Linton University College, Malawi.

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SUSTAINABLE MANAGEMENT (IIESM) 5K140

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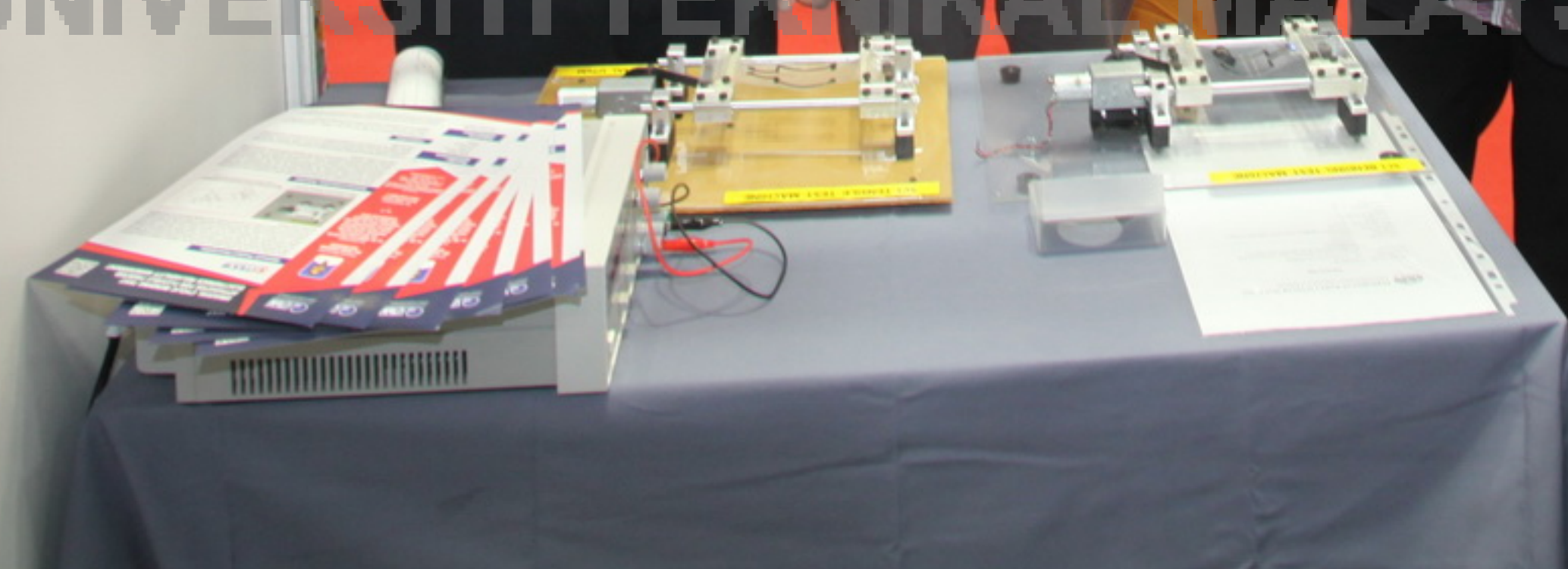
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Man in white shirt pointing at the poster.

Man in white shirt with glasses.

Man in black suit and cap.

Man in white shirt with name tag 'MYO AZLI'.





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**SMART**  
SMART Infrastructure Materials  
The objective of this project is to develop a smart infrastructure material that can be used in the construction of roads, bridges, and buildings. The project is a multi-disciplinary effort involving civil, electrical, and materials engineering. The project is currently in the design phase and is expected to be completed by the end of 2023.

**iIESM**  
Innovating Sustainable Engineering Systems  
GREEN INFRASTRUCTURE MATERIALS  
The objective of this project is to develop a sustainable engineering system that can be used in the construction of roads, bridges, and buildings. The project is a multi-disciplinary effort involving civil, electrical, and materials engineering. The project is currently in the design phase and is expected to be completed by the end of 2023.

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FGV R&D SDN. BHD.  
Formerly known as Felda Global Ventures Research & Development Sdn. Bhd.

FGV

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SUPER CONDUCTIVE GRAPHENE NANOPARTICLES INK FOR PRINTED ELECTRONICS

ITEX19

Abstract/ Product Description

ULTRA LIGHTWEIGHT 3D PRINTED IMMOBILIZATION CAST FOR BONE FRACTURE TREATMENT IN ORTHOPEDIC

Abstract/ Product Description

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& Development Sdn. Bhd.

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SUPER CONDUCTIVE GRAPHENE  
NANOPARTICLES INK FOR  
PRINTED ELECTRONICS

ITEX19

Abstract/ Product Description

ULTRA LIGHTWEIGHT 3D PRINTED  
IMMOBILIZATION CAST FOR BONE  
FRACTURE TREATMENT IN ORTHOPEDIC

ITEX19

Abstract/ Product Description

Novelty/Inventiveness

UNIVERSITI TEKNIK MALAYSIA MELAKA

MUETK





UNIVERSITI SULTAN ZAINAL ABIDIN (UNZA)

UTeM

MUHAMMAD EMA

ITEX EXHIBITOR

ITEX

ITEX

DUAL-BAND APERTURE COUPLED RECTENNA FOR RF ENERGY HARVESTING

MUETLab

ITEX 19

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DUAL-BAND APERTURE COUPLED RECTENNA FOR RF ENERGY HARVESTING

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Abstract Product Description

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