

Universiti Malaysia Perlis (UniMAP) is Malaysia's 17th public institution of higher learning. It was approved by the Malaysian Cabinet on May 2001. Originally known as Kolej Universiti Kejuruteraa Utara Malaysia (KUKUM), or Northern Malaysia University College of Engineering, it was renamed as Universiti Malaysia Perlis (UniMAP) in 1 st February 2007. The establishment of UniMAP aims to produce highly skilled and competent engineers to meet and support the agenda of National Industrial Plan. The first intake consisted of 116 engineering students who started classes on June 2002. At the beginning, the School of Materials Engineering has offered a Bachelor of Materials Engineering and Metallurgical Engineering program (June 2003). The Polymer Engineering Programme at UniMAP was first offered in 2007/2008 academic session with an enrolment of 34 students and this first cohort of students has graduated in June 2011. The expertise in rubber field were produced once the Polymer Engineering offered UniMAP. Programme in

**Mission:** To produce holistic human capital that contributes to the nation's development and industrial competitiveness agenda.

Vision: An internationally competitive academic and research institution.



## UNIVERSITI MALAYSIA PERLIS



SUBJECT AREA ENGINEERING & TECHNOLOGY

WORLD'S TOP 500 ASIA'S TOP 148





SUBJECT

ENGINEERING – MECHANICAL, AERONAUTICAL & MANUFACTURING

WORLD'S TOP 300
ASIA'S TOP 98



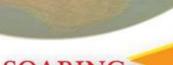
RANKED IN 1 SUBJECT AREA RANKED IN 2 SUBJECTS SCORED IN 16 SUBJECTS

SUBJECT ENGINEERING - ELECTRICAL & ELECTRONIC

WORLD'S TOP 350

ASIA'S TOP 110





#### SCORED IN 16 SUBJECTS

COMPUTER SCIENCE & INFO SYSTEMS | ENGINEERING – CHEMICAL | ENGINEERING –
ELECTRICAL | ENGINEERING – MECHANICAL | AGRICULTURE & FORESTRY |
BIOLOGICAL SCIENCES | CHEMISTRY | ENVIRONMENTAL SCIENCES | MATERIALS
SCIENCE | MATHEMATICS | PHYSICS & ASTRONOMY | BUSINESS & MANAGEMENT
STUDIES | EDUCATION | ECONOMICS & ECONOMETRICS | SOCIAL POLICY &
ADMINISTRATION | SPORTS RELATED SUBJECTS |

# ACHIEVEMENTS



# State-of-the-art Equipment & **Facilities**



**Teaching** factory



Physical & virtual **libraries** 

**Dedicated** research equipment



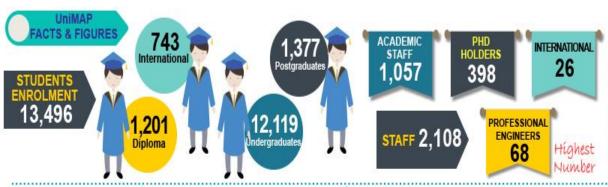


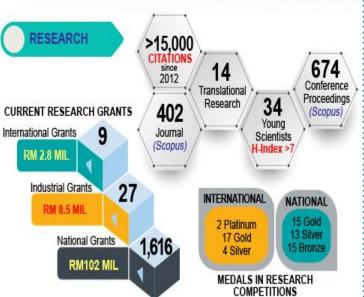


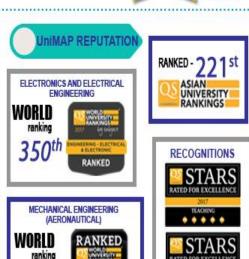
## UNIVERSITI MALAYSIA PERLIS ACHIEVEMENTS

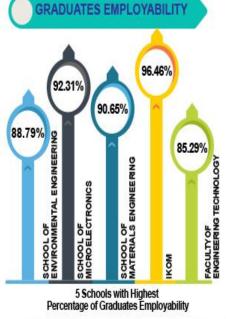
2017

# INDUSTRIAL 40 REVOLUTION 40











Graduates Employability Percentage based on Sectors



 $300^{th}$ 





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#### **Awards & Recognition**



**Industrial Collaborations** 



#### **Scopes of Research**

#### Loreal Women in Science - Latex

from tapioca ITEX Best of the best - New glove from tapioca IBM - Antimicrobial coating

**ITEX** – High toughness macrosphere from recycle tyre

IPITEX (Thailand) - High

toughness Rubber macrosphere



1.Design Online Monitoring Water Quality System Of Leaching Tank In Surgical Glove Production Line 2. Characterization of rubber gloves after exposing to different simulated biological fluids

#### Malaysia Rubber Board

1. Epoxidized natural rubber (Ekoprena) with Butadiene Rubber

2.Investigation on Thermal-Mechanical Degradation of Silica filled Polypropylene -High Density Polyethylene Composite

#### ITW Meritex (Impro) Sdn.Bhd

Analyze the defective in Gen 4MM and suggest a solution proposal by using simulation proces

#### Continental Tyre Sdn Bhd , Mergong, Kedah

High End Industry Graduate Internship Programme (HEIGIP)-every semester break

#### Top Glove

Research collaboration on product from recycle glove

#### Development of new materials Testing

Latex from tapioca Rubber ageing Antioxidant from Gambir Biodegradation Nano cellulose Protein alleray Antimicrobial coating Macrosphere from recycle tyre Macrosphere from rNBR alove

#### **Process**

Modification of leaching for curing Modification of Dunlop in foam Ternary Blend for thread tyre Implementation of IOT Online monitorina leachina quality tank

> **VISIBILITY AND FEASIBILITY OF** RUBBER RESEARCH (UNIMAP)

## UNIVERSITI **MALAYSIA** MAP PERLIS



### **Academic Programme**

#### Accredited Programme (10 years)

Bachelor of Engineering (Honours) (Polymer Enaineerina)

Master of Science Mixed Mode (Polymer Engineering)

#### **Facilities & Equipment**

Two-roll mill, Brabender, Injection Moulding, Twin screw extruder, z-blade internal mixer, Equipment for characterization & dipping, Capillary Rheometer, Rheometer, Viscometer, Brookfield Viscometer, FESEM.

FTIR, DSC, TGA Compression Moulding, Instron



Assoc. Prof. Dr. Hakimah Osman 15 years Formulation & Processina, IOT



Pei Lena 10 years Gloves, Tyre, Foam, Rubber toughening Rubber foam Rubber wearable material hakimah@unimap.edu.my plteh@unimap.edu.my



Dr. Nor Azura Abdul Mr Ismail Ibrahim Rahim 8 vears Composites, Latex electronic material, norazura@unimap.edu.my



Skills. Knowledge. Experiences. Researchers

7 Years Biodegradable Polymer, Rubber formulation Insole, & Processing, Natural fibers ismail@unimap.edu.my



Dr. Du Ngoc Uy Lan 5 years 6 vears Glove, Latex Foam, Latex, recycle tyre, Latex extrusion Formulation

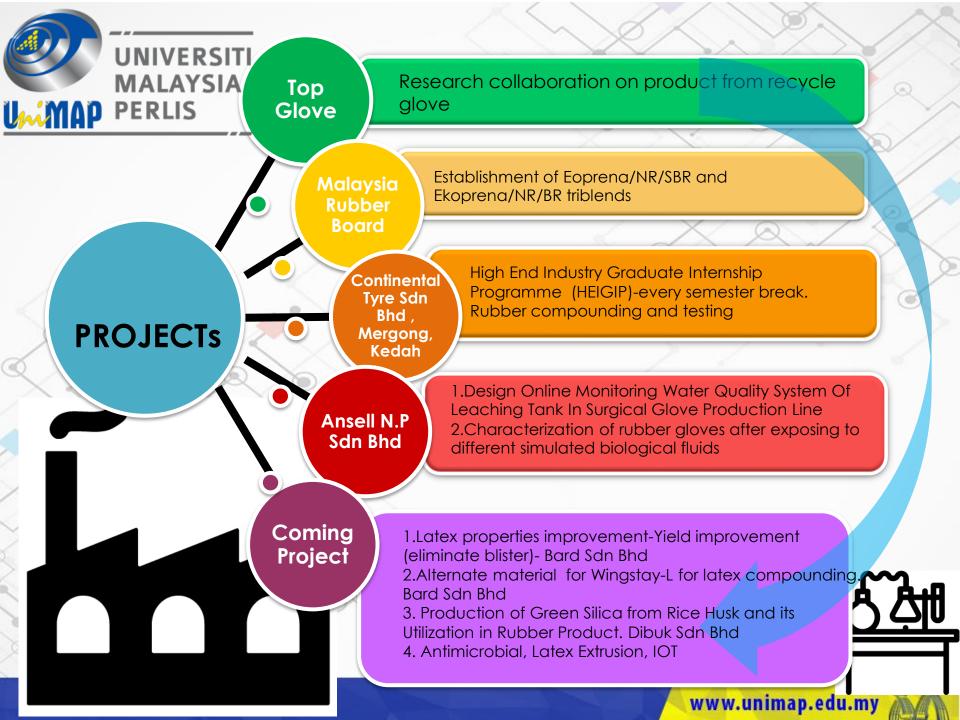
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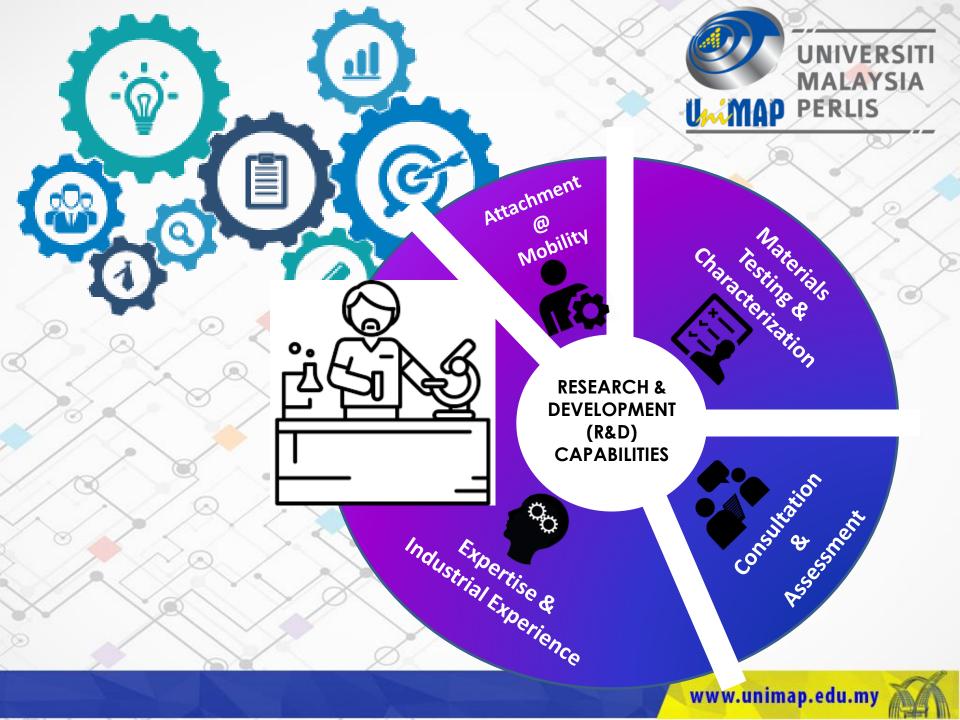


Polymeric Foam. rNBR Glove zunaida@unimap.edu.mv



Dr. Zunaida Zakaria Dr. Mohamad Syahmie Mohamad Rasidi Biodegradable Polymer, Biocomposites, Natural fibers syahmie@unimap.edu.my







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