

# KUKTEM

## Engineered to perfection

KOLEJ Universiti Kejuruteraan & Teknologi Malaysia (KUKTEM) was set up as a technical university that specialises in engineering and technology.

Based in Pahang, which has rainforest endowed with biodiversity and natural resources, KUKTEM focuses on two areas:

- \* Chemical Engineering & Industrial Biotechnology.
- \* Automotive Engineering and Manufacturing.

Its five faculties offer 22 degree and five diploma programmes at the undergraduate level as well as master and PhD programmes.

The five faculties and one centre of learning are:

- \* Faculty of Chemical & Natural Resources Engineering
- \* Faculty of Mechanical & Manufacturing Engineering
- \* Faculty of Electrical & Electronic Engineering
- \* Faculty of Civil & Environmental Engineering
- \* Faculty of Computer Systems & Software Engineering

\* Centre for Modern Languages and Human Sciences.

It offers postgraduate pro-



**STRONG FOCUS:**  
KUKTEM researchers with the new design of a two-stroke modular engine for multipurpose usage with lean-burn capacity.



grammes by research.

As for research, it focuses on applied research and industrial project to boost the teaching and learning process.

As for R&D, it set up three

focus groups and six expert groups.

The focus group are chemical & biotechnology, and automotive & manufacturing while expert group are instrumentation & control, in-

novative construction, information technology, human science, environmental & advanced material.

Among the research projects to be highlighted during the R&D Exhibition are:

\* Mobile Ultrasonic Ginger Extraction Pilot Plant by Ahmad Ziad Sulaiman from Chemical Engineering & Natural Resource Faculty;

\* CFD Modelling for Aerocyclones Optimisation, De-

sign, Scale-up and Troubleshooting by Jollius Gim-bun from Chemical Engineering & Natural Resource Faculty;

\* Integrated Management System for Education (IMS EDUCATION) by Wan Maseri Wan Mohd from Computer Science Engineering & Information Technology Faculty;

\* A Study On Challenges Faced By Women Engineers In Workforce by Norrihan Sulan from Centre of Modern Language and Social Science;

\* Essential Oils Extraction From "Gaharu" by Fatimawati Adam from Chemical Engineering & Natural Resource Faculty;

\* 3D Human Movement (Walking) Modelling Using Neural Network by Suryanti Awang from Computer Science Engineering and Information Technology Faculty; and

\* New Design of a Two-Stroke Modular Engine for Multipurpose Usage with Lean Burn Capability by Associate Professor Dr Rosli Abu Bakar from the Mechanical Engineering Faculty.