

# Research at UniMAP

UniMAP is a new establishment in the world of tertiary education in Malaysia, counting barely 10 years. She is even younger where it concerns research and development. Research is the yardstick by which a tertiary institution is gauged for her vision, achievements, contribution and advancements.

UniMAP is geared towards research par-excellence with strategic planning, vision, and inventiveness. These plans and strategies are set to coincide with the current governmental visions and roadmaps. In order to not only encourage but enforce research amongst UniMAP's academia, incentives for publications are in place. Futhermore, academic staff promotions are intricately linked to their research progress, in terms of products, patents and papers. However, research needs to have ample funds at ready disposal and UniMAP facilitates for all types, as is seen with the research activities in UniMAP with both internal and external funds. External research grants are not limited to federal government funds but include private institutions too. As such strong industrial links have been forged with various local and multinational corporations to enhance mutual information exchange as well as provide a channel for cooperative problem solving.

Solving problems for industries is multi-faceted and appropriately requires a multi-disciplinary approach to create unique and innovative solutions. This realization, together with the want and will to transform Malaysia's society through better living technology in all aspects of life, has prompted UniMAP to explore a multi-disciplinary research cooperation within UniMAP. This has come to be known as the 'research cluster' where various disciplines of engineering are placed in a hub.

## Research Cluster

UniMAP's Research Cluster concept has agglomerated the expertise from various disciplines. This clustering of technologies has enhanced research by providing innovative solutions to complete a research project. Inadvertently, the cross-disciplinary research has produced new publications and the numbers of papers published in journals are increasing. This restructuring initiative is to strengthen research activities that can be commercialized.

A total of seven research clusters have been established, which are;

- i. Intelligent Signal Processing
- ii. Acoustic Applications
- iii. Electrical Energy & Industrial Electronic System
- iv. Sustainable Engineering
- v. Embedded Computing
- vi. Sensor Technology and Application
- vii. Human-Technology Interface and Business Incubation

The cluster's sub-division heads are :



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