

Empowering sustainable energy

IN an increasingly urbanised world, shifting environmental priorities have put sustainability in the spotlight. Together with other world leaders, Malaysia adopted the 2030 Agenda for Sustainable Development (2030 Agenda) at the United Nations General Assembly in New York City on Sept 25, 2015.

In the last decade, the Malaysian government has implemented several action plans to intensify energy efficiency measures in various sectors such as building, industry, and transportation, which will harness energy savings potential, reduce Malaysia's carbon emissions, and decrease Malaysia's reliance on fossil fuels.

Much of Malaysia's large industrial sectors have been encouraged to use sustainable energy technologies to manufacture their products, such as palm oil, iron, steel, cement, glass, pulp and paper, rubber, and plastics.

The government and private energy companies, such as TNB and Petronas among others, have established the infrastructure of sustainable technologies.

In the building industry, to utilise active and passive energy efficiency technologies in both government and private commercial buildings, various programmes such as the Government Lead By Example (GLBE) programme and the Sustainable Achieve via Energy Efficiency (Save) programme have been implemented.

Therefore, the demand for skilled professionals in energy efficiency and sustainable energy practices in the industry is rising notably.

According to the National Energy Efficiency Master Plan, universities can play an essential role in training the specialised workforce and increasing the quality of human capital in the energy sustainability of various industry sectors, as innovative



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human capital has a crucial role to accelerate the nation's transformation.

In response to this demand as well as the skills gap across the Malaysian universities, UniKL-BMI has offered an effective programme in sustainable energy called Bachelor of Electrical Engineering Technology (Sustainable Energy) with Honours or known as BEET(SE) programme.

This programme aims to support the implementation of government programmes, improve capacity and knowledge, and address human capital needs in specific areas under EPP9. The Sustainable Energy Development Authority Malaysia (Seda) and Suruhanjaya Tenaga (ST) have recognised

this programme.

This programme will provide students with hands-on experience in sustainable energy assessment tools and software used in electrical engineering, which is intended for professionals practising in the fields of energy efficiency, energy management, low and zero-carbon heat, and power generation technologies; energy policies and laws; energy audits and facility management, and pathology and research in the electrical facilities operation and optimisation.

Students' abilities will be enhanced by completing the proposed programme, which will provide them with specialised knowledge of sustainable design and technologies.

As a result, they will be able to professionally investigate sustainable solutions and effectively engage with key industrial players to drive project outcomes and manage sustainable projects in the electrical sectors.

This goal aligns with the university's mission, which is to produce enterprising global technopreneurs. Graduates of this programme will be equipped with knowledge and skills to supplement their existing areas of expertise and will be able to pursue a career in the energy, construction, and manufacturing industries in Malaysia or abroad.

They can work as executive-level managers, designers, or engineers on energy-efficient and environmentally friendly building projects and developments. Also, they might be able to work as environmental sustainability officers, capital project managers, sustainability coordinators, facilities management officers, and assets managers in the public and private sectors.

Besides, UniKL-BMI also offers diploma and bachelor's degree programmes, which is Diploma of Engineering Technology in Electrical and Electronics, Diploma of Engineering Technology in Telecommunication, Bachelor of Electrical Engineering Technology, Bachelor of Electronic Engineering Technology, Bachelor of Electronic Engineering Technology (Medical Electronics), Bachelor of Telecommunication Engineering Technology, Bachelor of Electrical Engineering Technology (Sustainable Energy) and Bachelor of Electrical Engineering.

The September 2022 intake is currently open; application can be made through its website at www.unikl.edu.my.

■ If you want more information, call UniKL-BMI hotline 011-7018 8543 or email admission.bmi@unikl.edu.my