

## **Kejuruteraan Kimia**

Bidang pengajian ini menekankan kepada asas dan prinsip kejuruteraan kimia. Kajian ini meliputi rekabentuk, kawalan, operasi, pengoptimuman dan kinetik proses kimia. Ia meliputi integrasi proses, proses keselamatan, pengurusan loji dan aplikasi yang melibatkan kejuruteraan pengkomputeran termaju. Asas sains dan kejuruteraan dieksploitasi dan bersepadu untuk mencipta dan merangka novel, produk yang mampan, dan mesra alam. Industri kimia dan proses merangkumi petrokimia, penghasilan minyak dan gas, mineral dan pemprosesan bahan termaju, pemprosesan makanan, farmaseutikal, neutraceutical dan pemprosesan bioproduct.

## **Chemical Engineering**

This field of study emphasises the fundamental principles of chemical engineering. Research in the field includes design, control, operation, optimisation and kinetics of chemical processes. Process integration, process safety, plant management, and related applications of advanced computation engineering are also covered. The fundamentals of science and engineering are exploited and integrated to invent and formulate novel, sustainable, renewable and biodegradable products. The chemical and process industries covered are petrochemical, oil and gas production, mineral and advanced material processing, food processing, pharmaceutical, neutraceutical and bioproduct processing.