

## **Kejuruteraan Proses Pertanian**

Bidang pengajian ini menekankan aplikasi prinsip dan amalan kejuruteraan terhadap operasi lepastuai, pengawetan, dan pemprosesan bahan pertanian dan sumber-bio agar penggunaannya lebih cekap dan meminimalkan pembaziran. Bidang ini merangkumi pemprosesan primer, pengawetan dan penyimpanan komoditi utama pertanian seperti bijirin, kelapa sawit, koko, buah-buahan, sayur-sayuran, bunga dan bahan-bahan herba melalui rekabentuk, pembangunan, dan aplikasi operasi unit fizikal dan kimia seperti pengasingan, pengekstrakan, penulenan, penyemperitan, pengeringan, pembungkusan, pengisaran, pemanasan, dan pendinginan. Penekanan juga diberi kepada penggunaan bahan-bahan pertanian/biologi untuk membangunkan bahan mentah baru berasaskan bio untuk makanan, neutraceutikal, dan pembuatan bahan.

## **Agricultural Process Engineering**

This field of study emphasises on the application of engineering principles and practices for post harvest operations, preservations and processing of agricultural and bioresource materials processes so that they are efficiently utilized and losses are minimized. The area covers primary processing, preservation and storage of major agricultural commodities such as grains, oil palm, cocoa, fruits, vegetables, flowers and herbal materials through designing, developing and applying chemical and physical unit operations such as separation, extraction, purification, extrusion, drying, packaging, milling, heating and refrigeration. Emphasis is also given on the utilization of agricultural/biological materials to develop new bio-based raw materials for food, neutraceutical and manufacturing materials.