

**DIPLOMA IN BUILDING SERVICES ENGINEERING (DPB)**  
**JABATAN KEJURUTERAAN AWAM**  
**POLITEKNIK KUCHING SARAWAK**

**SYNOPSIS**

The Diploma in Building Services Engineering programme is designed to incorporate a wide discipline of production and maintenance of a stable internal environment that has the correct temperature, air quality and lighting levels. It requires the presence of all the necessary backup support systems such as power, hot and cold water, and lifts. The installation of life protection systems such as fire alarms, escape routes and sprinkler systems are an important responsibility as well. These functions must be linked to sophisticated building management systems to ensure effective control and to minimize energy consumption. Upon finishing the programme, graduates are expected to bring buildings to life by designing mechanical and electrical systems that allow people to function within an enclosed structure.

Students enrolling in this programme will go through a core curriculum consisting of courses in mathematics, science, entrepreneurial skills, soft skills, health & safety, Islamic studies, and moral education. This programme provides students with the knowledge and skills in the principles and practice of building services and building construction and maintenance. This programme will naturally help to cater the demand of building services semi-professionals in Malaysia. Various learning methods that include theory, practical, case studies, field trips and other innovative methods will be used to achieve the educational objectives.

Topics covered in this program include:

1. energy supply - electricity and renewable sources
2. air conditioning
3. water , drainage and plumbing
4. natural and artificial lighting
5. escalators and lifts
6. ventilation and refrigeration
7. communication lines and telephones
8. fire detection and protection
9. environmental science

**JOB PROSPECT**

The knowledge and skills acquired by the students from the program will enable them to apply for skilled based occupations such as:

1. Building Services Technical Assistant
2. Site supervisor
3. Assistant Facility Manager
4. Maintenance Supervisor
5. Research Assistant
6. Laboratory/workshop Technician