

**DIPLOMA IN MECHANICAL ENGINEERING  
(AIR CONDITIONING AND REFRIGERATION)**

**SYNOPSIS**

Diploma in Mechanical Engineering (Air Conditioning and Refrigeration) at Polytechnic's Ministry of Higher Education Malaysia is designed to cover the current wide discipline of mechanical engineering with added specialization subjects in the field of mechanical engineering. Core courses offered include Engineering Mechanics, Electrical Technology, Engineering Drawing, Mechanical Workshop Practice, Workshop Technology, Computer Aided Design, Thermodynamics, Engineering Laboratory, Fluid Mechanics, Strength Of Materials, Pneumatic & Hydraulics, Project, Air Conditioning and Refrigeration Technology, Air Conditioning and Refrigeration Workshop Practices, Air Conditioning and Refrigeration Control System and Air Conditioning System Design & Drawing. The elective courses are Maintenance Management, Mechanical Components & Maintenance, Industrial Management and Instrumentation & Control. Common core courses included in the programme are Engineering Mathematics, Computer Application, Engineering Science, Occupational Health & Safety and Entrepreneurship. Compulsory courses offered include English for Professional Communication, Islamic Or Moral Studies (TITAS), Co-Curriculum and Soft Skill would provide students with interpersonal ability, attitude and professionalism towards their career.

**JOB PROSPECT**

This programme provides the knowledge and skills in mechanical engineering field that can be applied to a broad range of careers in mechanical engineering. The knowledge and skills that the students acquire from the programme will enable them to participate in the job market as:

- Mechanical Technician
- Laboratory Technician
- Draughtsman
- Air-Conditioning & Refrigeration Technical Assistant.
- Air-Conditioning & Refrigeration Technician.
- Air-Conditioning & Refrigeration Designer.
- Air-Conditioning & Refrigeration Site Supervisor.
- Air-Conditioning & Refrigeration Mechanic Maintenance.
- Air-Conditioning & Refrigeration Assistant Engineer
- Technical Sales Executive