# DIPLOMA IN MECHANICAL ENGINEERING (PLASTIC)

KEMENTERIAN PENGAJIAN TINGGI
JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI

POLITEKNIK MALAYSIA
SULTAN ABDUL HALIM MU'ADZAM SHAH

**PROGRAMME EDUCATIONAL OBJECTIVE**

## PROGRAMME EDUCATIONAL OBJECTIVE(PEO)

**The Diploma in Mechanical Engineering (Plastic) programme should produce balanced and competent TVET workers who are:**

**PEO1** equipped with industry-relevant knowledge and skills in mechanical engineering field

**PEO2** engaging on lifelong and continuous learning to enhance knowledge and skills

**PEO3** instilled with entrepreneurial skills and mind set in the real working environment

**PEO4** established strong linkage with society and players in the industry

OBE OUTCOME-BASED EDUCATION

PENYELARAS OBE POLIMAS

# DPLOMA IN MECHANICAL ENGINEERING (PLANT)
# DIPLOMA IN MECHANICAL ENGINEERING (MANUFACTURING)
# DIPLOMA IN MECHATRONIC ENGINEERING
# DIPLOMA IN MECHANICAL ENGINEERING (PLASTIC)

## PROGRAMME LEARNING OUTCOMES (PLO)

**Upon completion of the programme, students shoud be able to:**

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### PLO1
apply knowledge of applied mathematics, applied science, engineering fundamentals and an engineering specialisation as specified in DK1 to DK4 respectively to wide practical procedures and practices.

### PLO2
identify and analyse well-defined engineering problems reaching substantiated conclusions using codified methods of analysis specific to their field of activity (DK1 to DK4)

### PLO3
design solutions for well-defined technical problems and assist with the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations (DK5)

### PLO4
conduct investigations of well-defined problems; locate and search relevant codes and catalogues, conduct standard tests and measurements

### PLO5
apply appropriate techniques, resources, and modern engineering and IT tools to well- defined engineering problems, with an awareness of the limitations (DK6)

### PLO6
demonstrate knowledge of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering technician practice and solutions to well-defined engineering problems (DK7)


### PLO7
understand and evaluate the sustainability and impact of engineering technician work in the solution of well-defined engineering problems in societal and environmental contexts (DK7).

### PLO8
understand and commit to professional ethics and responsibilities and norms of technician practice

### PLO9
function effectively as an individual, and as a member in diverse technical teams

### PLO10
communicate effectively on well-defined engineering activities with the engineering community and with society at large, by being able to comprehend the work of others, document their own work, and give and receive clear instructions

### PLO11
demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member or leader in a technical team and to manage projects in multidisciplinary environments

### PLO12
recognise the need for, and have the ability to engage in independent updating in the context of specialised technical knowledge

POLIMAS