

DIPLOMA IN MECHANICAL ENGINEERING (PLANT)

PROGRAMME EDUCATIONAL OBJECTIVE(PEO)

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



PROGRAMME EDUCATIONAL OBJECTIVE

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

PROGRAMME LEARNING OUTCOMES (PLO)

Upon completion of the programme, students should be able to:



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