

PROGRAMME EDUCATIONAL OBJECTIVES (PEO) DIPLOMA IN MECHANICAL ENGINEERING CEEM110



- PEO1 Graduates who apply scientific knowledge and technical skills in mechanical engineering related industry.
- PEO2 Graduates who have the ability to lead, communicate and work in a team with professional and sustainable practices.
- PEO3 Graduates who demonstrate effective information management, entrepreneurial skills and engage in life-long learning.

PROGRAMME OUTCOMES (PO) DIPLOMA IN MECHANICAL ENGINEERING CEEM110

- PO1 Apply knowledge of applied mathematics, applied science, engineering fundamentals and an engineering specialization as specified in DK1 to DK4 respectively to wide practical procedures and practices.
- PO2 Identify and analyse well-defined engineering problems reaching substantiated conclusions using codified methods of analysis specific to their field of activity. (DK1 to DK4)
- PO3 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)
- PO4 Conduct investigations of well-defined problems; locate and search relevant codes and catalogues, conduct standard tests and measurements.
- PO5 Apply appropriate techniques, resources, and modern engineering and IT tools to well-defined engineering problems, with an awareness of the limitations. (DK6)
- PO6 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)
- PO7 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)
- PO8 Understand and commit to professional ethics and responsibilities and norms of technician practice. (DK7)
- PO9 Function effectively as an individual, and as a member in diverse technical teams.
- PO10 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.
- PO11 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.
- PO12 Recognize the need for and have the ability to engage in independent updating in the context of specialized technical knowledge.